

4 LIST OF PUBLICATIONS

4.1 Books

- b1 Introduction to Relativistic Kinetic Theory, L.P. Csernai and D.Strottman, Chapter 1 in: Relativistic Heavy Ion Physics, ed. by L.P. Csernai and D.D. Strottman, (World Scientific, 1991) Vol I, pp. 1-37.
- b2 Introduction to Relativistic Heavy Ion Collisions, L. Csernai, (John Wiley & Sons, 1994) ISBN-471-93420-8.
- b3 Relativistic Heavy Ion Physics — L. P. Csernai and D. D. Strottman (eds.), (World Scientific, 1991) Vol I, ISBN 981-02-05368, in the series: International Review of Nucl. Phys., vol. 5, 1991.
- b4 Relativistic Heavy Ion Physics — L. P. Csernai and D. D. Strottman (eds.), (World Scientific, 1991) Vol II, ISBN 981-02-05376, in the series: International Review of Nucl. Phys., vol. 6, 1991.
- b5 Proceedings of the Int. Workshop on Applicability of Relativistic Hydrodynamical Models in Heavy Ion Physics, May 12-16, 1997, ECT*, Trento, Italy, ed.: L.P. Csernai, *Heavy Ion Physics*, **Volume 5** (1997)
- b6 Introduction to Relativistic Heavy Ion Collisions, L.P. Csernai, (Csernai Consult, Bergen, 2008) Corrected electronic edition <http://www.csernai.no/Csernai-textbook.pdf>
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4.2 List of publications in Scientific Journals

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- 7. Mathematical model for the self-organization of neural networks; L.P. Csernai, J. Zimányi, *Biological Cybernetics* **34** (1979) 49.
- 8. On the relativistic hydrodynamical description of energetic heavy ion reactions; L.P. Csernai, B. Lukács, J. Zimányi, *Lettere al Nuovo Cimento* **27** (1980) 89-108.
- 9. Threshold states in schematic models; H.W. Barz, L.P. Csernai, *Nucl. Phys.* **A340** (1980) 143.
- 10. Spherical and linear fluid dynamical models for relativistic heavy ion collisions; L.P. Csernai, H.W. Barz, *Z. Phys.* **A296** (1980) 173.
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- c5. The Strength Decoupling from the GDR in Shell-Model calculation for 116-Sn; L.P. Csernai, J. Zimányi, B. Gyarmati, R. Lovas, Proc. Int. Symp. Reaction Models 77, **Balatonfüred** 1977 (KFKI, Budapest 1978) p. 418.
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- c8. Viscous Relativistic Hydrodynamical Calculations for Heavy-Ion Collisions in One-Dimension; L.P. Csernai, H.W. Barz, B. Lukács, J. Zimányi, Proc. of the EPS Topical Conf. on Large Amplitude Collective Nuclear Motions, **Keszthely**, Lake Balaton, June 10-16. (KFKI, 1979) ed. A. Kiss et al. Vol. 2, p. 533.
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- c13. Collective sideways flow of nuclear matter and bounce off effect in relativistic heavy ion collisions; H. Stöcker, G. Buchwald, L.P. Csernai, R. Y. Cusson, J. A. Maruhn and W. Greiner, Proc. Int. Conf. on Nuclear Physics, **Berkeley** CA, 24-30 Aug. 1980 (LBL-11118 **Berkeley** report 1980) Vol. 1 p. 567.
- c14. Collective Behaviour in Hydrodynamic and Microscopic Models; J. A. Maruhn, G. Buchwald, L.P. Csernai, G. Graebner, H. Kruse, H. Stöcker, P. R. Subramanian and W. Greiner, invited talk. Proc. Int. Workshop on Future Relativistic Heavy Ion Experiments, GSI **Darmstadt**, FRG, Oct. 7-10, 1980, Eds. R. Bock, R. Stock (GSI Darmstadt report No. 81-6, 1981) p. 372.
- c15. Nuclear chemistry in the evaporation following the fluid dynamical flow in energetic heavy ion reactions L.P. Csernai, P. R. Subramanian, G. Buchwald, G. Graebner, H. Kruse, J. A. Maruh, H. Stöcker, W. Greiner, University of Frankfurt report UFTP-37/1980 (1980) and inv. talk Proc. of the IV-th Nordic Meeting on Intermediate and High Energy Nuclear Physics, **Geilo**, Norway, Jan 5-9, 1981. (Univ. of Lund 1981) p. 20.
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- c17. Influence of Dissipation Processes on the Bounce Off Effect in High Energy Heavy Ion Collisions - invited talk, G. Buchwald, L.P. Csernai, H. Stöcker, J. A. Maruhn, W. Greiner, Frühjarstagung of the Deutsche Physikalische Gesellschaft **Hamburg**, FRG, 1981, March 23 (Physik Verlag, Weinheim x1981) p.612.

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- c25. Study of collective aspects in high energy heavy ion collisions; L.P. Csernai, G. Buchwald, G. Graebner, H. Kruse, J. Maruhn, A. Rosenhauer, H. Stöcker, P. Subramanian, J. Theis, W. Greiner Gruppenbericht Frühjahrstagung, Deutsche Physikalische Gesellsch. **Hamburg**, March 23, 1981 (Physik Verlag Weinheim 1981) p. 638.
- c26. Fluid dynamical and evaporational model of relativistic heavy ion reactions - invited talk, L.P. Csernai, H. Stöcker, P. Subramanian, G. Buchwald, G. Graebner, J. A. Maruhn, W. Greiner X European Conference on Physics and Chemistry of Complex Nuclear Reactions, **Lillehammer**, Norway, Aug. 30 - Sept. 4, 1981 (unpublished).
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- c29. Microscopic and Macroscopic Models for Nuclear Collisions at Medium and High Energy - invited talk, H. Stöcker, G. Buchwald, L.P. Csernai, G. Graebner, P. R. Subramanian, J. Theis, J. A. Maruhn, W. Greiner, M. Gyulassy, K. Frankel, K. K. Gudima, V. D. Toneev; Proc. of the XX Int. Winter Meeting on Nuclear Physics, **Bormio**, Italy, Jan. 23-28, 1982 Ed. I. Iori (Univ. of Milano 1982).
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- c32. Fragment emission in relativistic heavy-ion reactions - invited talk, L.P. Csernai, Conf. on Nucleus-Nucleus Collisions and Nuclear Excitations, **Dubna**, USSR, 29 June - 2 July, 1982, (unpublished).
- c33. Fluid Dynamical Description of Heavy-Ion Collisions; L.P. Csernai, Int. Workshop on Quark Matter Formation and Heavy Ion Reactions, **Bielefeld**, May 9-13, 1982 (unpublished).
- c34. Non-compensated heat in heavy ion collisions; L.P. Csernai, B. Lukács, Proc. Int. Conf. on High Energy Nuclear Physics, **Balatonfüred**, 6-11, June, 1983, (KFKI, Budapest, 1983) p. 363.
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- c36. Hydrodynamics of heavy ion reactions; L.P. Csernai, - talk on the Conf. on the Heavy Ion Accelerator Complex of JINR, **Dubna**, Sept. 6-8, 1983 (unpublished).

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- c39. Entropy production by nonquasistatic phase transitions in high energy heavy ion reactions; L.P. Csernai, B. Lukács, *ibid.* p. 459.
- c40. Scaling properties in the hydrodynamical description of nucleus nucleus collisions at intermediate energies; N.L. Balazs, B. Schürmann, K. Dietrich, L.P. Csernai, *ibid.* p. 251.
- c41. Hydrodynamical description of the quark-gluon plasma formation in heavy-ion collisions at intermediate energies, H.W. Barz, B. Kämpfer, L.P. Csernai, B. Lukács Proc. Int. Symp. on High Energy Physics, **Ahrenschoop**, GDR, 9-15 October, 1983.
- c42. Passing shock Waves in Relativistic Heavy Ion Collisions; L.P. Csernai, Universitätswoche in Kernphysik, **Schladming**, Austria, March 4-10, 1983 (unpublished).
- c43. Stopping power of heavy nuclei, -invited talk; L.P. Csernai, J.I.Kapusta Proc. Int. Workshop on Nuclear Dynamics III. **Copper Mountain**, Colorado, March 4-9, 1984, p. 153.
- c44. Statistically Generated Events and the Fluid-Dynamical Expectation; L.P. Csernai, J. Randrup and G. Fai in High Energy Nuclear Collisions, *ibid.* p. 211.
- c45. Detonation fronts and Quark Matter Formation in Ultrarelativistic Heavy-Ion Reactions; L.P. Csernai, Proc. Int. Workshop on Gross Properties of Nuclei and Nuclear Excitations XII, **Hirschegg**, Austria, January 16-21, 1984, p. 112.
- c46. Fluctuation of Global Variables and the Fluid Dynamical Expectation in High Energy Nuclear Collisions; G. Fai, L.P. Csernai, J.Randrup Meeting of Nucl. Phys. Div. of APS, **Washington, D. C.**, April 23-26, 1984, Bull. of Am. Phys. Soc. B29 (1984) 694.
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- c48. Possible solution of the entropy puzzle - L.P. Csernai, Proc. of the 7th High Energy Heavy Ion Study Conference, Oct.8-12 1984, GSI, **Darmstadt**, 1984 p.531.
- c49. Nuclear Stopping Power - invited talk L.P. Csernai, *ibid.* p. 127.
- c50. Dynamical aspects of the excitation and decay of Quark-Gluon plasma in relativistic heavy-ion collisions; H.W. Barz, B. Kämpfer, L.P. Csernai, B. Lukács, Proc. of the VII Int. Seminar on High Energy Physics Problems, June 19-23, 1984 **Dubna**, (JINR, Dubna, 1984) p. 544.
- c51. Deconfinement transition and the double shock phenomenon; B. Kämpfer, H.W. Barz, L.P. Csernai, Proc. of the RHIC Workshop, April 15-19, 1985, **Brookhaven** ed. by P.E. Haustein and C.L. Woody (BNL 1985) p.339
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- c53. Liquid-Gas Phase Separation in Nuclear Collisions and Nucleosynthesis in Central Nb + Nb and Ca + Ca Collisions; L.P. Csernai, J.I. Kapusta, N.K. Glendenning and G. Fai, Proc. of XIV Int. Workshop on Gross Properties of Nuclei and Nuclear Excitations, **Hirschegg**, Austria, January 13-17, 1986, ed. by H. Feldmeier, p. 146.
- c54. Baryon Recoil and the Fragmentation Regions in Ultrarelativistic Nuclear Collisions; L.P. Csernai, M. Gyulassy, Proc. of Int. Workshop on Nuclear Dynamics VI. **Copper Mountain** CO, Feb. 23-28, 1986 p.155.
- c55. Collective Flow in Central Ca+Ca and Nb+Nb Collisions; G. Fai, L.P. Csernai, J.I. Kapusta, *ibid.* p.120.
- c56. Phase transition and double shock creation - invited talk - L.P. Csernai, Proc. of II Int. Workshop on Local Equilibrium in Strong Interaction Physics, **Santa Fe**, New Mexico, USA, April 9-19, 1986; Eds.: P. Charruthers and D. Strottman (World Scientific 1986) p.432
- c57. Reaction mechanisms of the QCD plasm formation and decay - invited lectures - L.P. Csernai, Proc. of Workshop on High Energy Heavy Ion Collisions and Quark Degrees of Freedom in Nuclei, **Puri**, India, Jan. 2-15, 1987 (World Scientific 1987) p.132.
- c58. Nuclear Liquid Gas Phase Transition and Fragment Production in Heavy Ion Collisions, - invited lectures - L.P. Csernai, *ibid.* p. 69.
- c59. Statistical models of fragment production in heavy ion collisions and the effects of microcanonical statistics - invited talk - L.P. Csernai, G. Fai, Proc. Int. Symp. on Perspectives in Nuclear Physics, **Madras**, India, Jan. 19-23, 198, Journal of the Madras University B50 (1987) 79.

- c60. Statistical models with fragment-fragment interactions and the nuclear EOS - invited talk - L.P. Csernai, G. Fai, and G. Westfall, Int. Meeting on Intermediate Energy Nuclear Physics, **Balatonfüred**, Hungary, June 8-13, 1987 (unpublished).
- c61. Fluid dynamical scaling in heavy ion reactions - invited lecture - L.P. Csernai, Int. Workshop on the Theory of Heavy Ion Reactions, **Budapest**, Hungary, June 14-17, 1987 (unpublished).
- c62. Experimental Observables and the Nuclear Equation of State - invited talk - L.P. Csernai, International School of Physics "Enrico Fermi", Course on Trends in Nuclear Physics, Course CIII, **Varenna**, Italy, June 23 - July 3, 1987, (MSUCL- 623/1987); eds.: P. Kienle, R.A. Ricci and A. Rubbino, (Nort-Holland, 1989) pp. 112-133.
- c63. Collective transverse flow in high energy heavy ion collisions - invited talk - L.P. Csernai, TPI Workshop on High Temperature QCD and Relativistic Many Body Theory, **Minneapolis**, Oct. 8-10, 1987 (unpublished).
- c64. Scaling properties of the collective flow - Contributed talk - L.P. Csernai, Proc. of the 8th High Energy Heavy Ion Study and Bevalac Users' Meeting, Nov. 16-20, 1987, **Berkeley CA**
- c65. Fluid Dynamical Models of Ultrarelativistic Heavy Ion Reactions - Invited Talk - L.P. Csernai, XI Nordic meeting on Particle Physics, **Spåtind Mt. Hotel**, Norway, Jan. 9-15, 1988, (unpublished).
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- c67. Scaling Behaviour of Physical Observables, A. Bonasera, L.P. Csernai, and B. Schürmann, Proc. Int. Workshop on Gross Properties of Nuclei and Nuclear Interactions, XVI. **Hirschegg**, Austria, Jan. 18-22, 1988, Ed. by H. Feldmeier, p. 250.
- c68. Recent Advances in Intermediate Energy Nuclear Physics - Invited Talk - at the plenary session of the Annual Meeting of the Norwegian Physical Society, **Oslo**, June 13-16, 1988 (Unpublished).
- c69. Fluid dynamical model of high energy heavy ion collisions - invited talk - L.P. Csernai, Int. Workshop on Heavy Ion Physics (NEFIM), **Budapest**, June 16-22, 1988 (unpublished).
- c70. The Nuclear Equation of State - invited lectures - Int. Summer School on Nuclear Dynamics, **Dronten**, The Netherlands, Aug. 8-21, 1988, In "New Aspects of Nuclear Dynamics" (Plenum, New York, 1989) eds.: J. H. Koch and P. K. A. de Witt Huberts, p. 183.
- c71. Pion Rapidity Distributions in Ultra-relativistic Heavy Ion Collisions - invited talk - L. P. Csernai, M. Gong and D. D. Strottman, Int. Workshop on Nuclear Dynamics at Medium and High Energies, **Bad Honnef**, W. Germany, Oct. 10-14, 1988, Bergen Scientific/Technical Rep. No. 196/1988
- c72. Transverse - momentum and rapidity distributions of pions and baryons in heavy ion collisions - invited talk - The 8th Nordic Meeting on Intermediate and High Energy Nuclear Physics, **Geljo**, Norway, Jan. 3-7, 1989, Unpublished.
- c73. What can we learn from p-T distributions in relativistic nuclear collisions - invited talk - NATO Advanced Study Institute, International Advanced Course on "The Nuclear Equation of State", **Peniscola**, Spain, May 21 - June 3, 1989; Proc.: "The Nuclear Equation of State, Part B: QCD and the Formation of the Quark-Gluon Plasma" (W. Greiner, and H. Stöcker, eds.) (Plenum, 1990) p. 369-384.
- c74. Fluid dynamical model of ultra-relativistic heavy ion collisions - invited talk - L.P. Csernai, Int. Workshop on Heavy Ion Physics (NEFIM), **Budapest**, June 12-16, 1989 (unpublished).
- c75. Entropy production in the relativistic heavy ion collisions - invited talk - A. K. Holme, P. Lévai, G. Papp, L. P. Csernai, Proc. of the 6th Nordic Meeting on Nuclear Physics, **Kopervik**, Norway, Aug. 10-15, 1989; Univ. of Bergen, Phys. Dept., Sci. Tech. Report 212/1989; Physica Scripta, **T32** (1990) 155.
- c76. The freeze-out problem in fluid dynamics - invited talk - P. Lévai, G. Papp, E. Staubo, A.K. Holme, D. Strottman and L.P. Csernai, In Proc. of the Int. Workshop on Gross Properties of Nuclei and Nuclear Excitations XVIII, **Hirschegg**, Kleinwalsertal, Austria, Jan. 15-20, 1990 (TH Darmstadt, 1990) p. 90.
- c77. Collective Flow at Ultra-relativistic Energies - invited talk - L. P. Csernai, Proc. of Sixth Winter Workshop on Nuclear Dynamics, **Jackson Hole** Wyoming, USA, Feb. 17-24, 1990 - (LBL- 28709, Berkeley 1990) page 123.
- c78. Monte-Carlo calculation of energy flow, transverse momenta and strangeness in hadronic and nuclear collisions - invited talk - N.S. Amelin, L.P. Csernai, K.K. Gudima, and V.D. Toneev; Proc. of the 4th Workshop on Experiments and Detectors, **Brookhaven Nat. Lab.**, Upton, New York, USA, July 2-7, 1990. Univ. of Bergen, Dept. of Physics, Scientific/Technical Report No. 233/1990.
- c79. Rapidity and transverse momentum distributions from fluid dynamics and from a string Monte-Carlo model; - invited talk - N.S. Amelin and L.P. Csernai; Proc. of the Int. Workshop on Correlations and Multiparticle Production, (CAMP), **Marburg**, Germany, May 14-16, 1990. (World Scientific, 1991) p. 290.

- c80. One-fluid calculations of ultra-relativistic heavy ion collisions - invited talk - E.F. Staubo, A. K. Holme, L.P. Csernai, and D. Strottman, Proc. of 6th Nordic Meeting on Nuclear Physics, **Kopervik**, Norway, Aug. 10-15, 1989; Univ. of Bergen, Phys. Dept., Sci. Tech. Report 216/1989; Physica Scripta, **T32** (1990) 190.
- c81. Heavy Ion Collisions and the Equation of State - lecture - L.P. Csernai, - NUK Student Course of the Norwegian Research Council for Science and Humanities, **Bergen**, Norway, November 6-7, 1990 (unpublished).
- c82. Monte-Carlo Cascade and Hydrodynamical Models of Ultra-relativistic Heavy Ion Collisions, - invited talk - L.P. Csernai, N.S. Amelin, E.F. Staubo, and D. Strottman, Proc. of the 7th Winter Workshop on Nuclear Dynamics, **Key West**, Florida, Jan. 26 - Feb. 2, 1991. Univ. of Bergen, Phys. Dept., Sci. Tech. Report 1991-03; (World Scientific, 1991) p 288.
- c83. Comparison of Quark Gluon String Models and Hydrodynamical Models of Ultra-relativistic Heavy Ion Collisions, - invited lectures - L.P. Csernai, at the Workshop on Hard QCD Probes of Dense Nuclear and Hadronic Matter, with the Institute of Nuclear Theory, University of Washington, **Seattle**, Oct. 1, 1990 - Jan. 30, 1991. (unpublished).
- c84. Momentum-Dependent Mean Field and the Nuclear Equation of State, L.P. Csernai, G. Fai, C. Gale, E. Osnes, Kent State Univ. preprint, No. KSUCNR-007-91 (1991), Proc. of the 7th Winter Workshop on Nuclear Dynamics, **Key West**, Florida, Jan. 26 - Feb. 2, 1991. (World Scientific, 1991) p. 147.
- c85. Reaction models for Ultra-relativistic Collisions, - invited talk - L.P. Csernai, N.S. Amelin, E.F. Staubo, and D. Strottman, Proc. of the 7th Adriatic Int. Conf. on Nuclear Physics: Heavy Ion Physics — Today and Tomorrow, **Islands of Brioni**, Croatia, Yugoslavia, May 27 - June 1, 1991, Univ. of Bergen, Phys. Dept., Sci./Tech. Report 1991-14; (World Scientific, 1991) p. 341.
- c86. Reaction models for Ultra-relativistic Heavy Ion Collisions, - invited talk - L.P. Csernai, N.S. Amelin, E.F. Staubo, and D. Strottman, GSI Heavy Ion Physics Workshop, **Darmstadt**, Germany, May 13 - 14, 1991, (unpublished)
- c87. Hadron - quark phase transition with the momentum dependent Yukawa interaction for hadrons, L.P. Csernai, G. Fai, C. Gale, Gy. Kluge, V.K. Mishra and E. Osnes, Kent State University report. KSUCNR-009-91 (1991), and U. of Minnesota, TPI report - TPI - MINN 34/91 - T , in Proc. of the Int. Workshop on Relativistic Heavy Ion Physics at Present and Future Accelerators, **Budapest**, June 17 - 21, 1991.
- c88. Thermodynamics, transverse flow and time evolution in semi inclusive π^\pm , K^\pm and p^\pm production at $\sqrt{s} = 1.8$ TeV; T. Alexopoulos, C. Allen, E.W. Anderson, H. Areti, S. Banerjee, H.W. Barz, P.D. Beery, N.N. Biswas, A. Bujak, D.D. Charmony, T. Carter, Y. Choi, P. Cole, L.P. Csernai, R.J. De Bonte, A.R. Erwin, J.R. Jennings, A.T. Goshaw, L.J. Gutay, A.S. Hirsch, C. Hojvat, V.P. Kenney, C.S. Lindsey, J.M. Losecco, T. McMahon, A.P. McManus, N. Morgan, K.S. Nelson, S.H. Oh, J. Piekarczyk, N.T. Porile, D. Reeves, R.P. Scharenberg, S.R. Stampke, B.C. Stringfellow, M.A. Thompson, F. Turkot, W.D. Walker, C.H. Wang, and D.K. Wesson; Proc. of the 7th Winter Workshop on Nuclear Dynamics, **Key West**, Florida, Jan. 26 - Feb. 2, 1991. (World Scientific, 1991) p. 258.
- c89. Momentum-Dependent Mean Field and the Nuclear Equation of State, G. Fai, L.P. Csernai, C. Gale, E. Osnes, Talk at the Hungarian - Norwegian - US - Triangle workshop, **Lake Balaton**, Hungary, June 10-15, 1991. (unpublished)
- c90. Reaction models for Ultra-relativistic Heavy Ion Collisions, L.P. Csernai, N.S. Amelin, E.F. Staubo, and D. Strottman, Talk at the Hungarian - Norwegian - US - Triangle workshop, **Lake Balaton**, Hungary, June 10-15, 1991. (unpublished)
- c91. The Quark-Gluon String Model, N.S. Amelin, E.F. Staubo, D. Strottman, and L.P. Csernai, Talk at the Hungarian - Norwegian - US - Triangle workshop, **Lake Balaton**, Hungary, June 10-15, 1991. (unpublished)
- c92. Hadron-quark phase transition with the momentum-dependent Yukawa interaction for hadrons, L.P. Csernai, G. Fai, C. Gale, Gy. Kluge, V.K. Mishra, and E. Osnes, - talk presented at the Workshop on Relativistic Heavy Ion Physics at Present and Future Accelerators, **Budapest**, Hungary, June 17-21, 1991, Minnesota preprint TPI-MINN- 91/34 -T, and (CRIP, 1992).
- c93. Collectivity in Ultra-Relativistic Heavy Ion Collisions, N.S. Amelin, L.P. Csernai, E.F. Staubo, and D. Strottman - Talk presented at the 9th int. Conf. Quark Matter '91, **Gatlinburg**, Tennessee, USA, Nov. 11-15, 1991, *Nucl. Phys.* A544 (1992) 463c.
- c94. Comparative analysis of strangeness production at AGS-BNL energies and SPS energies, N.S. Amelin, E.F. Staubo and L.P. Csernai; - Talk - Strange Quark Matter, **Århus**, Denmark, May 20-24, 1991; Nucl. Phys. B24 (Proc. Suppl.) (1991) 269.
- c95. Dynamics of High Energy Heavy Ion Collisions, N.S. Amelin, L.P. Csernai, E.F. Staubo, and D. Strottman - Paper I.A.1, abstracts, North-West Europe Nuclear Physics Conference, **Edinburgh** Scotland, 31 March - 3 April, 1992. (The Institute of Physics, London, 1992) p. 13.

- c96. Nucleation in relativistic first-order phase transitions, L.P. Csernai and J.I. Kapusta, Contributed Talk, North-West Europe Nuclear Physics Conference, **Edinburgh** Scotland, 31 March - 3 April, 1992. (unpublished).
- c97. Hadronization of the Quark-Gluon Plasma, L.P. Csernai, J.I. Kapusta, Gy. Kluge, E.E. Zabrodin, Invited talk — 7th Nordic Meeting on Nuclear Physics, **Vigso** Kurscenter, Denmark, Aug. 17-21, 1992, Vol. of Contributions (University of Aarhus, 1992) p. 76.
- c98. Dynamics of the Hadronization of the Quark-Gluon Plasma, L.P. Csernai, J.I. Kapusta, Gy. Kluge, E.E. Zabrodin, Talk at the 2nd Hungarian - Norwegian - US - Triangle workshop, **Budapest**, Hungary, Aug. 10-13, 1992; (CRIP, 1992, Report No. KFKI-1992-35/A).
- c99. Global Characteristics of Relativistic Heavy-Ion Collisions at SPS, RHIC and LHC energies in String Fusion Model — L.V. Bravina, N.S. Amelin, M.A. Braun, L.P. Csernai and C. Pajares Talk at the 2nd Hungarian - Norwegian - US - Triangle workshop, **Budapest**, Hungary, Aug. 10-13, 1992; (CRIP, Report No.: KFKI-1993-11/A) p. 52.
- c100. Relativistic Hydrodynamics and Flavor Flow - L.P. Csernai - invited lectures at the NATO Advanced Study Institute on “Particle Production in Highly Excited Matter”, **Il Ciocco**, Italy, July 12-24, 1992. (Plenum, NATO ASI ser., 1993) p. 295.
- c101. Relativisztikus nehézion reakciók dinamikája - invited talk - L.P. Csernai - at the 3rd Hungarian World Congress, Scientific Sections, **Budapest** Aug. 14-18, 1992. (BME, 1992) p. FM 5.
- c102. Hadronization of the Quark-Gluon Plasma, - L.P. Csernai, - Talk at the NFS Teoretikermøte, **Utstein Kloster**, Norway, Nov. 13-15, 1992, unpublished.
- c103. Fluid Dynamical Predictions for Au+Au Collisions at AGS - invited talk - L. Bravina, L.P. Csernai, P. Lévai, and D. Strottman, - at the Int. Conf. Heavy-Ion Physics at the AGS: HIPAGS '93, Jan. 13-15, 1993, (MIT **Boston**, Massachusetts, USA, 1993) p.333.
- c104. Nucleation and Hadronization in Quark-Gluon Plasma - - invited talk - L.P. Csernai, J.I. Kapusta, Gy. Kluge, and E.E. Zabrodin - at the Gross Properties of Nuclei and Nuclear Excitations Int. Workshop XXI, **Hirschegg**, Kleinwalsertal, Austria, Jan. 18-23, 1993. (TH- Darmstadt, 1993) p.221.
- c105. On the hadron formation time in pion-nucleus interactions, - L. V. Bravina, N. S. Amelin, L. P. Csernai, V. L. Korotkih, L. I. Sarycheva, S. Yu. Sivoklov, - Proc. of the Gross properties of Nuclei and Nuclear Excitations XXI, **Hirschegg**, Austria, January 18 - 23, 1993, Ed. by H. Feldmeier, Darmstadt 1993, p. 253-255.
- c106. Monte-Carlo quark gluon string model for hadron-hadron, hadron- nuclear and nuclear-nuclear collisions at high energies, - L. V. Bravina, N. S. Amelin, L. P. Csernai, V. D Toneev, S. Yu. Sivoklov, - Talk presented at the Norsk Fysisk Selskap Meeting, **Utstein kloster** (Norway), November 13-15, 1992. (unpublished)
- c107. Strangeness production in heavy ion collisions at CERN energies, - L. V. Bravina, N. S. Amelin, L. P. Csernai, V. D Toneev, S. Yu. Sivoklov, - Talk presented at the 10th Nordic Meeting on Intermediate and High Energy Nuclear Physics, **Gräftåvallen**, Sweden, January, 5-9, 1993.
- c108. Different schemes of QGP hadronization, - L.P. Csernai, J.I. Kapusta, G. Kluge, E.E. Zabrodin, - Talk presented at Norsk Fysisk Selskap Meeting , **Utstein kloster** (Norway), November, 13-15, 1992.
- c109. Different scenarios of the first-order phase transition in relativistic heavy ion collisions. - L. P. Csernai, J. I. Kapusta, G. Kluge, E. E. Zabrodin, - Talk presented at 10th Nordic Meeting on Intermediate and High Energy Nuclear Physics, **Gräftåvallen**, (Sweden), January, 5-9, 1993.
- c110. Nucleation in QGP and Hadronization in Heavy Ion Reactions, - L.P. Csernai, - Invited talk at the ITP Conference on Strong Interactions at Finite Temperature, **Santa Barbara**, (California, USA), Aug. 16-20, 1993. (unpublished).
- c111. Quark-Gluon Plasma freeze-out in a supercooled state? - T. Csörgő and L.P. Csernai, - Invited talk at the Workshop on Pre-equilibrium Parton Dynamics in Heavy Ion Collisions, Lawrence Berkeley Laboratory, **Berkeley**, (California, USA), Aug. 23- Sept. 3, 1993. Univ. of Bergen Sci./Tech. report, 1993-10. (LBL, Berkeley, 1993). (hep-ph/9312330)
- c112. Phase transition dynamics in QGP hadronization, - E.E. Zabrodin, L.P. Csernai, J.I. Kapusta and Gy. Kluge, - Talk presented at the 10th int. Conf. Quark Matter '93, **Borlänge**, Sweden, June 20-24, 1993, *Nucl. Phys.* A566 (1994) 407c.
- c113. Fluid Dynamics and Quark Gluon String Model - What we can expect for Au + Au collisions at AGS?, - L.V. Bravina, N.S. Amelin, L.P. Csernai, P. Levai and D. Strottman, - Talk presented at the 10th int. Conf. Quark Matter '93, **Borlänge**, Sweden, June 20-24, 1993, *Nucl. Phys.* A566 (1994) 461c.

- c114. Relativistic nuclear fluid dynamics — L.P. Csernai, L.B. Bravina, T. Csörgő, P. Lévai, D.D. Strottman and E.E. Zabrodin - invited lectures at the NATO Advanced Study Institute on “Particle Production in Highly Excited Matter”, **Bodrum**, Turkey, Sept. 25 - Oct. 9, 1993, (Plenum, NATO ASI series B **335**, 1994) p. 181
- c115. Freeze out and Hadronization - L.P. Csernai and T. Csörgő, - invited talk, Tenth Winter Workshop on Nuclear Dynamics, 16-22 January, 1994, **Snowbird**, Utah, USA. (World Sci., Singapore, 1994) p. 111.
- c116. “Relativistic Dynamics of Nuclear Fluids and QGP Hadronization” - L.P. Csernai - Invited Lecture Series at the Study Workshop on “Modeling Heavy Ion Reactions”, 3-14 May, 1994, China Center of Advanced Science and Technology (CCAST - World Laboratory), **Beijing**, P.R. China (unpublished).
- c117. “Dynamics of relativistic nuclear fluids and phase transitions” - L.P. Csernai - Invited talk at the European Research Conference on “Physics of High Energy Heavy Ion Collisions”, June 17-22, 1994, **Vuosaari**, Finland (unpublished).
- c118. “Introduction to relativistic heavy ion collisions” - L.P. Csernai - Invited lecture series at the “Nord-PLUS Summer Course on Heavy Ion Collisions”, June 6-16, 1994, **Jyvaaskylaa**, Finland; (based on [b2].)
- c119. “Introduction to relativistic heavy ion collisions” - L.P. Csernai - Invited lecture series at the “International Ph.D. School on Quarks and Heavy Ion Physics”, Aug. 16-24, 1994, Bolyai College, R. Eötvös University, **Budapest**, Hungary; (based on [b2].)
- c120. “Rapid hadronization from quark-gluon plasma” - L.P. Csernai and T. Csörgő, - Invited talk at the “Budapest Workshop on Quarks and Heavy Ion Physics”, [also the “4th Hungarian-Norwegian-US Triangle meeting on Nuclear Theory”], Aug. 25-28, 1994, Bolyai College, R. Eötvös University, **Budapest**, Hungary; (unpublished)
- c121. “Nuclear Fluid Dynamics and QGP Hadronization” - L.P. Csernai - Invited talk at the “Hadrons - 94”. In Proc. of the X-th Int. Workshop on Soft Physics (strong interactions at large distances) **Uzhgorod**, Ukraine, Sept. 7-11, 1994, (Inst. of Theoretical Physics, Ukrainian Academy of Sciences, 1994) ed. by G. Bugrij, L. Jenkovszky and E. Martynov, p. 134.
- c122. “Simultaneous Freeze-out and Hadronization” - L.P. Csernai - Invited lecture at the “Hot and Dense Nuclear Matter” programme of the Institute for Nuclear Theory, **Seattle**, WA, USA, Oct. 25, 1994. (unpublished.)
- c123. “Violation of Collective Flow Scaling at AGS Energies” - L.V. Bravina and L.P. Csernai, - Invited talk at the “Budapest Workshop on Quarks and Heavy Ion Physics”, [also the “4th Hungarian-Norwegian-US Triangle meeting on Nuclear Theory”], Aug. 25-28, 1994, Bolyai College, R. Eötvös University, **Budapest**, Hungary; (unpublished)
- c124. “Violation of the collective transverse flow scaling at AGS energies”, L.V. Bravina and L.P. Csernai - - poster - at the European Research Conference on “Physics of High Energy Heavy Ion Collisions”, June 17-22, 1994, **Vuosaari**, Finland.
- c125. “Strangeness production in relativistic heavy ion collisions at SPS” - L.V. Bravina, N.S. Amelin and L.P. Csernai, contributed talk presented at the Int. Symp. on Strangeness and Quark Matter, Sept. 1-5, 1994, **Krete**, Greece.
- c126. “Nuclear Fluid Dynamics and QGP Hadronization” - L.P. Csernai - Invited talk at the “Hadrons - 94”. In “Strong interactions at Long Distances” ed. by L.L. Jenkovszky (Hardronic Press, Palm Harbour, FL USA, 1995, ISBN: -0-911767-99-1), proc. of Int. Workshop Hadrons’94, **Uzhgorod**, Ukraine, Sept. 7-11, 1994, -p. 309-320.
- c127. “Microscopic Mechanisms of Rapid Hadronization” - L.P. Csernai, I.N. Mishustin and Á. Mócsy - invited lecture - Proc. Int. Workshop: Strangeness in Hadronic Matter, S’95, **Tucson**, Arizona, USA, Jan. 4-6, 1995. Ed.: J. Rafelski, (AIP, 1995) p. 419.
- c128. “Simultaneous Hadronization and Freeze-out in Supercooled Quark-gluon Plasma” - L.P. Csernai, I.N. Mishustin and Á. Mócsy, - contributed talk - 8th Nordic Meeting on Nuclear Physics, **Gräftevallen**, Sweden, Jan. 4-8, 1995 (unpublished.)
- c129. “Hadronization Pictures” - L.P. Csernai, - invited talk - Proc. Int. Workshop: Strangeness in Hadronic Matter, S’95, **Tucson**, Arizona, USA, Jan. 4-6, 1995. Ed.: J. Rafelski, (AIP, 1995) p. 379.
- c130. “Fast Hadronization of QGP and its Signals at ALICE” - L.P. Csernai, - invited talk - ALICE - N meeting, **Lund**, Sweden, May 9-10., 1995, unpublished.
- c131. “Freeze-out in relativistic heavy ion collisions” - invited talk - L.V. Bravina, I.N. Mishustin, N.S. Amelin, J.P. Bondorf and L.P. Csernai, at the Int. Workshop on Pionic Processes and Transport in Hadronic Matter, **Los Alamos**, New-Mexico, USA, July 24-28, 1995, unpublished.

- c132. “Fast hadronization of QGP” - invited talk - L.P. Csernai, I.N. Mishustin, and Á. Mócsy, at the Int. Workshop on Pionic Processes and Transport in Hadronic Matter, **Los Alamos**, New-Mexico, USA, July 24-28, 1995, unpublished.
- c133. “On Signals of Quark-Gluon Plasma Freeze-Out” - T. Csörgő and L.P. Csernai, - invited talk - Proc. Int. Workshop: Strangeness in Hadronic Matter, S’95, **Tucson**, Arizona, USA, Jan. 4-6, 1995. Ed.: J. Rafelski, (AIP, 1995) p. 382. (hep-ph/9503397)
- c134. Hadron chemistry in rapid hadronization - invited talk - L.P. Csernai, I.N. Mishustin, and A. Mócsy, 210th American Chemical Society National Meeting, **Chicago**, IL, USA, Aug. 20 - 24, 1995, - Abstract Book, Part 2, ISBN-0-8412-3222-9 (American Chem. Soc., Chicago, IL 1995) p. NUCL036.
- c135. Fast hadronization of quark-gluon plasma - invited talk - L.P. Csernai, I.N. Mishustin, and A. Mócsy, Proc. of 4th Int. Workshop on Relativistic Aspects of Nuclear Physics, **Rio de Janeiro**, Brazil, Aug. 28-30, 1995, (World Scientific, 1996) 137.
- c136. Relativistic Nucleus-Nucleus Collisions - invited review talk - L.P. Csernai, J.P. Bondorf, L.V. Bravina, P. Lévai, I.N. Mishustin, Á. Mócsy, and D.D. Strottman, XVII Reunião de Trabalho em Física Nuclear no Brasil, **Águas de Lindóia** SP, Brazil, Sept. 2-6, 1995, unpublished.
- c137. Fast Hadronization of Quark-Gluon Plasma - invited talk - L.P. Csernai, I.N. Mishustin, Á. Mócsy, D. Molnár, Feng Zhonghan, Proc. Int. Conf. on Nuclear Physics at the Turn of the Millennium: Structure of Vacuum and Elementary Matter, **Wilderness/George** South Africa March 10-16, 1996. (World Scientific, 1997) p. 443.
- c138. Quark-Gluon Plasma - invited plenary talk - L.P. Csernai, North-West Europe, Nuclear Physics Conference, Vrije Universiteit, **Amsterdam** 16-19 April, 1996 Book of Abstracts of Plenary Sections (Vrije U., 1996) p. 34.
- c139. Rapid hadronization and strangeness production - invited talk - L.P. Csernai, T.S. Biró, Z.H. Feng, I.N. Mishustin, Á. Mócsy, D. Molnár and O. Scavenius, Proc. Int. Conf. Strangeness ’96, **Budapest**, Hungary May 15-17, 1996; *Heavy Ion Phys.* **4** (1996) 45.
- c140. Rapid hadronization in quark-gluon plasma - Poster Presentation - L.P. Csernai, T.S. Biró, Z.H. Feng, I.N. Mishustin, Á. Mócsy, D. Molnár and O. Scavenius, Int. Conf. Quark Matter ’96 **Heidelberg**, Germany, May 20-24, 1996; (unpublished).
- c141. Hadronization of quark-gluon plasma - Invited talk - L.P. Csernai, T.S. Biró, Z.H. Feng, I.N. Mishustin, Á. Mócsy, D. Molnár and O. Scavenius, in Proc. Int. Conf. Hadrons ’96, **Novi Svet** (Crimea) Ukraine, June 9-16, 1996, (Bogoljubov Inst. of Theor. Physics, Ukrainian Acad. Sci., 1996) p. 265.
- c142. Hadronization of QGP in Heavy Ion Reactions - Invited talk - L.P. Csernai, T.S. Biró, Z.H. Feng, S. Jeon, J.I. Kapusta, I.N. Mishustin, Á. Mócsy, D. Molnár and O. Scavenius, Int. Workshop on Disoriented Chiral Condensates, ECT*, **Trento**, Italy, Oct. 21-25, 1996. (unpublished)
- c143. Time scales and non-equilibrium aspects of phase transitions in heavy ion collisions - invited talk - L.P. Csernai, T.S. Biró, Z.H. Feng, S. Jeon, J.I. Kapusta, I.N. Mishustin, Á. Mócsy, D. Molnár and O. Scavenius, Int. Workshop on Phase transitions (PT’96), **Copenhagen** Nov. 27-30, 1996, (unpublished).
- c144. Phase transitions in linear sigma model - Poster - L.P. Csernai, T.S. Biró, Z.H. Feng, S. Jeon, J.I. Kapusta, I.N. Mishustin, Á. Mócsy, D. Molnár and O. Scavenius, Int. Workshop on Phase transitions (PT’96), **Copenhagen** Nov. 27-30, 1996, (unpublished).
- c145. Freeze-out in relativistic heavy ion collisions at 160 A GeV/c - Poster - L. Bravina, I. Mishustin, J. Bondorf and L.P. Csernai, Int. Workshop on Phase transitions (PT’96), **Copenhagen** Nov. 27-30, 1996, (unpublished).
- c146. Fluctuations and dissipation in field theories - invited talk - L.P. Csernai, S. Jeon and J.I. Kapusta, Proc. Int. Workshop on QCD Phase Transitions, **Hirschegg**, Kleinvalsertal, Austria, Jan. 12-18, 1997, eds. H. Feldmeier, J. Knoll, W. Nörenberg and J. Wambach (GSI Darmstadt, 1997) p. 158-167.
- c147. Fast hadronization of supercooled quark-gluon plasma - invited talk - L. Csernai, “1997 RHIC/INT Winter Workshop: Hadronic Signals of New Physics at RHIC” 20-22 February 1997, LNBL **Berkeley**, CA, USA, (unpublished).
- c148. Beyond the Navier-Stokes Equation: Including Random Thermal Fluctuations, Zs. I. Lázár, L.P. Csernai, S. Jeon, J.I. Kapusta, I.A. Lázár and D. Molnár, Proc. Int. Workshop on Applicability of Relativistic Hydrodynamical Models in Heavy Ion Physics, **Trento**, Italy, May 12-18, 1997; *Heavy Ion Phys.* **5** (1997) 333.
- c149. Freeze-out in Relativistic Heavy Ion Collisions at SPS, L.V. Bravina, I.N. Mishustin, J. Bondorf and L.P. Csernai, Proc. Int. Workshop on Applicability of Relativistic Hydrodynamical Models in Heavy Ion Physics, **Trento**, Italy, May 12-18, 1997; *Heavy Ion Phys.* **5** (1997) 455.
- c150. Idealized Freeze-out in Relativistic Fluid Dynamical Models, L.P. Csernai, Zs.I. Lázár and D. Molnár,

- Proc. Int. Workshop on Applicability of Relativistic Hydrodynamical Models in Heavy Ion Physics, **Trento**, Italy, May 12-18, 1997; *Heavy Ion Phys.* **5** (1997) 467.
- c151. Fluid Dynamics and Heavy Ion Reactions, — invited plenary talk — L.P. Csernai, F. Grassi, Y. Hama, and Zs.I. Lázár, Proc. of 5th Int. Workshop on Relativistic Aspects of Nuclear Physics, **Rio de Janeiro**, Brazil, August 27-29, 1997. ed. by T. Kodama et al. (World Scientific) 245.
 - c152. Disoriented Chiral Condensate Formation from a Canonical Ensemble of Initial States, — Poster Presentation — D. Molnár, L.P. Csernai, and Zs.I. Lázár, Quark Matter '97, **Tsukuba**, Japan, Dec. 1-5, 1997. (unpublished).
 - c153. Canonical ensemble of initial conditions for DCC fluctuations, Dénes Molnár, László P. Csernai and Zsolt I. Lázár, Proc. of the Int. Workshop on Correlations and Fluctuations '98, **Mátraháza**, Hungary, June 18-24, 1998, Eds. T. Csörgö, et al., (World Scientific, 1999) p. 204.
 - c154. Collective Flow: Recent Developments, - invited plenary talk -, L.P. Csernai, 9th Nordic Meeting on Nuclear Physics, **Jyväskylä**, Finland, August 4-8, 1998. Book of Abstracts (JYFL, 1998) p. 0.10
 - c155. Event by Event Fluid Dynamics, - invited talk -, L.P. Csernai, Zs.I. Lázár, I.A. Lázár, D. Molnár and D.D. Strottman, Workshop on Event by Event Physics in Relativistic Heavy Ion Collisions, **Trento**, Italy, Sept. 21-26, 1998. (CERN Internal Distribution, 1998).
 - c156. Fluid Dynamical Description of Relativistic Heavy Ion Collisions - invited talk -, L.P. Csernai, Zs.I. Lázár, I.A. Lázár, V. Magas, D. Molnár and D.D. Strottman, - Int. Symposium on 'Nuclear Shapes and Motions', **Santa Fe**, October 25-27, 1998. In Honor of Ray Nix. (unpublished).
 - c157. Directed Flow and QGP Signatures - invited talk -, L.P. Csernai, - Int. Workshop on Fluctuations and Freeze Out in Fluid Dynamics, FFF '98, **Bergen**, Nov. 12-14, 1998 (unpublished).
 - c158. Hadronization and Freeze-Out - invited talk -, L.P. Csernai, - Int. Workshop (PT98) on Phase Transitions in Nuclear Collisions, NBI/NORDITA, **Copenhagen**, Nov. 18-21, 1998 (unpublished).
 - c159. Supercooling of Rapidly expanding Quark-gluon Plasma, - talk -, EE. Zabrodin, L.V. Bravina, L.P. Csernai, H. Stöcker, W. Greiner, 9th Nordic Meeting on Nuclear Physics, **Jyväskylä**, Finland, August 4-8, 1998. Book of Abstracts (JYFL, 1998) p. 4.7.
 - c160. Fluctuation and Dissipation in Discretized Fluid Dynamics, Zs. Lázár, L.P. Csernai D. Molnár, and I.A. Lázár, Proc. of the Int. Workshop on Correlations and Fluctuations '98, **Mátraháza**, Hungary, June 18-24, 1998, Eds. T. Csörgö, et al., (World Scientific, 1999) p. 539.
 - c161. Freeze-out in Hydrodynamical Models in Relativistic Heavy Ion Collisions, V.K. Magas, Cs. Anderlik, L.P. Csernai, F. Grassi, W. Greiner Y. Hama, T. Kodama, Zs. Lázár and H. Stöcker, Proc. of the XIV Int. Conf. on Ultra-Relativistic Nucleus- Nucleus Collisions, Quark Matter '99, **Torino**, Italy May 10-15, 1999. *Nucl. Phys.* **A661** (1999) 596-599.
 - c162. QGP signal as a third collective flow pattern, - invited talk - L.P. Csernai, Cs. Anderlik, V.K. Magas, D. Rohrlich, - Workshop on Flow and Strangeness Production in Heavy Ion Collisions from Relativistic to Ultra-relativistic Energies, **Obernai**, France, Sept. 27-28, 1999, published electronically: http://ireswww.in2p3.fr/ires/obernai/liste_talks.html
 - c163. Structure of the elliptic flow as a QGP signal, - invited talk - L.P. Csernai, Cs. Anderlik, V.K. Magas, D. Rohrlich, RHIC 2000 Workshop, **Park City**, Utah, USA, Mar. 11-18, 2000. Published electronically: <http://theo08.nsl.mscl.msu.edu/RHIC2k/proceedings.htm>
 - c164. The source of elliptic flow and initial conditions for hydrodynamical calculations, V.K. Magas, L.P. Csernai, and Daniel D. Strottman, - talk at Crimea Summer Seminar on New Trends in High-Energy Physics, Yalta, **Crimea**, Ukraine, May 27 - June 4, 2000, Published electronically: nucl-th/0009049.
 - c165. Initial conditions for hydrodynamical calculations for RHIC energies, L.P. Csernai, V.K. Magas, and Daniel D. Strottman, - talk at the Berkeley Summer Workshop on Heavy Ion Physics, **Berkeley**, California, July 20 - 29, 2000, unpublished.
 - c166. Phase transitions in high energy heavy ion collisions within fluid dynamics, invited talk at the Symp. on Fundamental Issues in Elementary Matter, **Bad Honnef**, Germany, Sept. 25-29, 2000, L.P. Csernai, Cs. Anderlik and V. Magas, Proc. Symp. on Fundamental Issues in Elementary matter, ed. by W. Greiner, (EP Systema, Debrecen, 2001) p. 77-88; *Heavy Ion Phys.* **14** (2000) 83-95, nucl-th/0010023.
 - c167. Initial state for hydro models at RHIC/LHC Energies and the third flow component - invited talk -, L.P. Csernai, at the "Mini Workshop on Heavy Ion Reaction Dynamics", Nov. 6-8, 2000, **Minneapolis**, MN, USA. (unpublished)
 - c168. The source of the "Third Flow Component", V.K. Magas, L.P. Csernai and D.D. Strottman, Proc. of 30th International Symposium on Multiparticle Dynamics, October 9 - 15, 2000, **Tihany**, Lake Balaton, Hungary, (World Scientific, Singapore, 2001) p. 523, hep-ph/0101125

- c169. Initial equilibrated energy distribution at RHIC/LHC energies and its consequences (in Hungarian) , L.P. Csernai, V.K. Magas and D.D. Strottman, invited talk - at the Workshop on "Hungarian High Energy Nuclear Physics at the beginning of XXIth century", March 27-28, 2001, **Budapest**, Hungary. (unpublished).
- c170. The Scientific Program of Bergen Computational Physics Laboratory, - talk -, L.P. Csernai, - held at the "BCPL User Meeting", March 22-24, 2001, **Trento**, Italy (unpublished).
- c171. "Excitement at high pressure and temperature" - invited tutorial lecture, L.P. Csernai, North West Europe - Nuclear Physics Conference, April 17-22, 2001, **Bergen**, Norway, (unpublished).
- c172. Experience with Visitors at the Bergen Computational Physics Laboratory and at the Bergen Marie Curie Training Site for Theoretical Physics, - invited participation and brief contribution -, L.P. Csernai, - at the EU Conference "An Enlarged Europe for Researchers", June 27-28, 2001, **Brussels**, Belgium (unpublished).
- c173. "Modeling Relativistic Nuclear Collisions" - invited talk, L.P. Csernai, C. Anderlik, V.K. Magas, and D. Strottman, - at the "Colloque International sur la Physique du Plasma de Quarks et de Gluons", **Paris**, Palaiseau, France, l'Ecole Polytechnique, Sept. 4-8, 2001. Published electronically: <http://polywww.in2p3.fr/CIPPQG/trans/> and in Proc. Int. Workshop on the Physics of the Quark-Gluon Plasma, (Les editions de l'Ecole Polytechnique, 2002) p. 75-80.
- c174. "Relativistic Hydrodynamics" - invited tutorial lecture, L.P. Csernai, Int. Conf. on Strange Quarks in Matter 2001, Sept. 22-29, 2001, **Frankfurt am Main**, Germany. Published electronically: <http://www.th.physik.uni-frankfurt.de/sqm2001/talks/Montag/csernai1/csernai1.html>
- c175. "Post Freeze Out Hadron Abundances, Reaction Dynamics and Hadronization Models" - invited talk, L.P. Csernai, Int. Conf. on Strange Quarks in Matter 2001, Sept. 22-29, 2001, **Frankfurt am Main**, Germany. *J. Phys. G28* (2002) 1993, and Published electronically: <http://www.th.physik.uni-frankfurt.de/sqm2001/talks/Dienstag/csernai2/csernai2.html> and
- c176. "Multi Module Model for Ultra-relativistic Heavy Ion Collisions", - V.K. Magas, L.P. Csernai and D. Strottman, inv. talk at the Int. Conf. on New Trend in High Energy Physics, **Yalta**, Crimea, Ukraine, Sept. 22-29, 2001. (hep-ph/0110347 and Published in *Yalta 2001, New trends in high-energy physics* 193-200.)
- c177. "The Academia Europaea on the Web" - invited talk - L.P. Csernai, Int. Workshop on "Virtuality" at the Istituto Veneto di Scienze, Lettere ed Arti - November 16-18, 2001, **Venezia**, Italy (unpublished).
- c178. "Hydrodynamics for Modeling Ultra-Relativistic Heavy Ion Reactions" - invited lecture series- L.P. Csernai, Pan-American Advanced Study Institute on "New States of Matter in Hadronic Reactions", **Campos do Jordao** SP, Brasil, Jan. 7-18, 2002. Proc.: AIP Conference Proceedings Volume 631 - NEW STATES OF MATTER IN HADRONIC INTERACTIONS: Pan American Advanced Study Institute, ed. by H.-Thomas Elze, Erasmo M. Ferreira, Takeshi Kodama, Jean Letessier, Johann Rafelski, and Robert L. Thews, ISBN 0-7354-0086-5, (American Institute of Physics, 2002) pp. 428-459. Published also electronically: <http://proceedings.aip.org/dbt/dbt.jsp?KEY=APCPCS&Volume=631&Issue=1>
- c179. "Initial conditions for RHIC collisions", V.K. Magas, L.P. Csernai and D.D. Strottman, Proc. Int. Workshop on Gross Properties of Nuclei and Nuclear Excitations XXX, Ultrarelativistic Heavy Ion Collisions, **Hirschegg**, Austria, Jan. 13-19, 2002. (TU Darmstadt, 2002) in press, (hep-ph/0202118)
- c180. QGP hydrodynamics for RHIC energies - invited talk - L.P. Csernai, Cs. Anderlik, A. Keranen, V.K. Magas, J. Manninen and D. Strottman, at the Int. Workshop on Quark and Hadron Dynamics in Relativistic Heavy Ion Collisions, March 3-7, 2002, **Budapest**, Hungary; in "Budapest 2002 Workshop on Quark and Hadron Dynamics" ed by P. Levai (EP Systema, Debrecen, Hungary) ISBN 963 202 787 6, pps. 83-91.
- c181. "Report on BCPLs Research Activity" - talk - Laszlo P. Csernai, at the "BCPL User Meeting" **Trento**, Italy, March 8-9, 2002. (unpublished).
- c182. "Technical Review Report on BCPLs Research Activity" - Laszlo P. Csernai, European Commission, DG Research, **Brussels**, Belgium, June 7, 2002. (unpublished).
- c183. Anisotropic flow of strange particles in heavy-ion collisions at RHIC energies, L.V. Bravina, L.P. Csernai, A. Faessler, C. Fuchs and E.E. Zabrodin, Int. Conf. on Strange Quarks in Matter 2001, Sept. 22-29, 2001, **Frankfurt am Main**, Germany. Published electronically: <http://www.th.physik.uni-frankfurt.de/sqm2001/talks/> and *J. Phys. G28* (2002) 1977.
- c184. QCD hydrodynamics for LHC and RHIC, L.P. Csernai, Cs. Anderlik, O. Heggo-Hansen, A. Nyiri, K. Tamoussiunas, E. Molnar, Z. Lazar, V. Magas, D. Molnar, A. Keranen, J. Manninen, F. Grassi, Y. Hama, T. Kodama, H. Stöcker, W. Greiner, D.D. Strottman, - Proc. of NATO Advanced Research Workshop on "Diffraction, 2002", Interpretation of the New Diffractive Phenomena in Quantum Chromodynamics and in the S-matrix theory, **Alushta**, Crimea, Ukraine, Aug. 31 - Sept. 5, 2002, Edited by R. Fiore, et al., (Kluwer Academic Publishers, Dodrecht, NL, 2003), ISBN 1-4020-1306-X, page 143-154.

- c185. HADRONIZATION AND FREEZE OUT FROM SUPERCOOLED QGP, V.K. Magas, L.P. Csernai, M.I. Gorenstein. **Alushta**, Crimea, Ukraine, Aug. 31 - Sept. 5, 2002, Published in "Alushta 2002, Multiparticle dynamics" pp. 154-157.
- c186. PHI MESON PRODUCTION AT RHIC, L. Bravina, L. Csernai, A. Faessler, C. Fuchs, S. Panitkin, Nu Xu and E. Zabrodin, Talk given at Quark Matter 2002 (QM 2002), **Nantes**, France, 18-24 Jul 2002. (hep-ph/0208161)
- c187. "Report on BCPLs Research Activity and Plans" - talk - Laszlo P. Csernai, at the "BCPL User Meeting" **Trento**, Italy, March 26-30, 2003. (unpublished)
- c188. Collective flow in violent collisions, Laszlo P. Csernai - Invited talk given at the 10th Nordic Meeting on Nuclear Physics **Oslo**, Norway, May 12-16, 2003.
- c189. Phase transitions and fluctuations in mesoscopic systems, L.P. Csernai, V.K. Magas, J. Pipek and D.D. Strottman, Invited plenary talk at the "Idea-Finding Symposium" for the Frankfurt Institute for Advanced Studies", **Frankfurt am Main**, Germany, April 15-17, 2003. Proc. of the Idea-Finding Symposium, Frankfurt Institute for Advanced Studies, Ed. by Walter Greiner and Joachim Reinhardt, EP Systema, Debrecen, Hungary, 2004, ISBN 963 214 398 1, (2004) p. 47-55.; and Published electronically: <http://www.physik.uni-frankfurt.de/symposium/talks/csernai.ppt>
- c190. Flow effects and their measurable consequences in ultra-relativistic heavy-ion collisions - invited talk, L.P. Csernai, at the int. conf. on "Topics in Heavy Ion Collisions, 2003" **Montreal**, Canada, June 25-28, 2003. Published electronically: <http://www.physics.mcgill.ca/HIC03/>
- c191. Phase Transitions in High-Energy Heavy Ion Collisions (I) (II), - invited lectures, L.P. Csernai, A. Anderlik, Cs. Anderlik, A. Keranen, V.K. Magas, J. Manninen, E. Molnar, A.Nyiri, B.R. Schlei, D.D. Strottman, K. Tamosiunas, NATO ASI, **Kemer**, (Antalya) Turkey, Sep 22 - Oct 2, 2003, in Proc. of the NATO ASI on Structure and Dynamics of Elementary Matter, Camyuva-Kemer (Antalya), Turkey; ed. by W. Greiner, M.G. Itkis, J. Reinhardt and M. Cem Guclu, ISBN 1-4020-2445-2, p. 127. and Published electronically: <http://www.physik.uni-frankfurt.de/asi/talks.html> and hep-ph/0401005
- c192. Multi module modelling of heavy ion Collisions, - invited talk, L.P. Csernai, et al., at the "Collective flow and QGP properties" RIKEN-BNL workshop, **Brookhaven**, USA, Nov 17-19, 2003, Published electronically: <http://tonic.physics.sunysb.edu/flow03/program.html>
- c193. Collective flow effects at RHIC, L.P. Csernai - invited talk at the 3rd BUDAPEST WINTER SCHOOL ON HEAVY ION PHYSICS, Dec. 8 - 11, 2003, **Budapest**, Hungary, Published electronically: <http://www.hef.kun.nl/novakt/school03/>
- c194. "Multi Module Models for Heavy Ion Reactions" - invited Poster presentation - L.P. Csernai, A. Anderlik, Cs. Anderlik, . Hegg-Hansen, J. Manninen, E. Molnár, A. Nyiri, D. Röhrich, and K. Tamosiunas, V.K. Magas, D.D. Strottman, B. Schlei, F. Grassi, Y. Hama, T. Kodama, H. Stöcker, and W. Greiner, at The Seventeenth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (Quark Matter 2004), in **Oakland**, California, USA, from January 11 - 17, 2004.
- c195. "The 3rd flow component: a sign of QGP" - invited talk, L.P. Csernai, A. Anderlik, Cs. Anderlik, O. Hegg-Hansen, E. Molnár, A. Nyiri, D. Rohrich, K. Tamosiunas, V.K. Magas, A. Keranen, J. Manninen, B. Schlei and D.D. Strottman, at the: CMA Workshop on Computational advances in the nuclear many-body problem, **Oslo**, Norway, 11-13 March 2004, (unpublished)
- c196. "The 3rd flow component as a QGP signal" - invited talk, L.P. Csernai, A. Anderlik, Cs. Anderlik, O. Hegg-Hansen, E. Molnár, A. Nyiri, D. Röhrich, and K. Tamosiunas, Proc. of the INTERNATIONAL WORKSHOP ON HOT AND DENSE MATTER IN RELATIVISTIC HEAVY IONCOLLISIONS, March 24-27, 2004, **Budapest**, Hungary, Ed. by G. Wolf, EP Systema, Budapest, ISBN 9632175395, (2005) p. 1-6., (hep-ph/0405277)
- c197. The 3rd Flow component, and collective flow measurables, invited talk,- Laszlo P. Csernai, International Workshop on Creation and Flow of Baryons in Hadronic and Nuclear Collisions, ECT*, **Trento**, Italy, 3-7 May 2004, (unpublished).
- c198. "Multi-Module Modeling of Heavy Ion Reactions and the 3rd Flow Component" - invited talk - L.P. Csernai, A. Anderlik, Cs. Anderlik, V.K. Magas, E. Molnár, A. Nyiri, D. Röhrich, and K. Tamosiunas, IX Hadron Physics and VII Relativistic Aspects of Nuclear Physics: A Joint Meeting on QCD and QGP, **Angra dos Reis, Rio de Janeiro**, Brazil, March 31, 2004, Published in: AIP Conference Proceedings, Vol. 739, (2004), ISBN 0 7354 0223 X, Ed. by E. Ferreira and T. Kodama, p. 330-346. and (hep-ph/0408183).
- c199. "Cancelling Juttner Distributions for Space-like Freeze-out", - contribution - K. Tamosiunas, L.P. Csernai, J. Manninen, E. Molnar and A. Nyiri, IX Hadron Physics and VII Relativistic Aspects of Nuclear Physics: A Joint Meeting on QCD and QGP, **Angra dos Reis, Rio de Janeiro**, Brazil, March 31, 2004; Published in: AIP Conference Proceedings, Vol. 739, (2004), ISBN 0 7354 0223 X, Ed. by E. Ferreira and T. Kodama, p. 652-657. Published electronically: <http://www2.uerj.br/hadron2004/contrib.htm>

- c200. "Modified Boltzmann Transport Equation" - invited talk, V.K. Magas, L.P. Csernai, E. Molnár, A. Nyiri and K. Tamosiunas, Proc. of the 18th Nuclear Physics Division Conf. of the EPS on "Phase transitions in strongly interacting matter", **Prague**, 23.8.-29.8. 2004, Nucl. Phys. A **749** (2005) 202-205.
- c201. "On the actual tasks of the Physics Section" - contribution to section meeting - Academia Europea Annual Conference "Europe in Change", 2-4 Sept. 2004, **Helsinki**, Finland. (unpublished.)
- c202. "Hydrodynamics: Overview" - invited summary talk - L P Csernai, E Molnar, A Nyiri and K Tamosiunas, Proc. of the 8th Int. Conf. "SQM2004", on "STRANGENESS IN QUARK MATTER" **Cape Town**, South Africa, 15-20 September, 2004, J. Phys. G: Nucl. Part. Phys. 31 (2005) S951-S957. Published electronically: <http://hep.phy.uct.ac.za/sqm2004/program.shtml>
- c203. On various descriptions of freeze-out and hadronization - invited talk - L.P. Csernai, at the "4th BUDAPEST WINTER SCHOOL ON HEAVY ION PHYSICS, Dec. 1 - 3, 2004, **Budapest**, Hungary. Published electronically: <http://www.hef.kun.nl/novakt/school04/>
- c204. Collective Phenomena in Heavy Ion Collisions - plenary contributed talk - Á Nyíri, L P Csernai, E Molnár and K Tamosiunas, Proc. of the 8th Int. Conf. "SQM2004", on "STRANGENESS IN QUARK MATTER" **Cape Town**, South Africa, 15-20 September, 2004, J. Phys. G in press. Published electronically: <http://hep.phy.uct.ac.za/sqm2004/program.shtml>
- c205. Modeling of Boltzmann Transport Equation for Freeze-Out - plenary contributed talk - K. Tamosiunas, L.P. Csernai, V.K. Magas, E. Molnár, A. Nyiri, Proc. of the 8th Int. Conf. "SQM2004", on "STRANGENESS IN QUARK MATTER" **Cape Town**, South Africa, 15-20 September, 2004, J. Phys. G in press. Published electronically: <http://hep.phy.uct.ac.za/sqm2004/program.shtml>
- c206. Collective Phenomena in Heavy Ion Collisions, -invited talk - Á. Nyíri and L.P. Csernai - invited talk - Proc. of the INTERNATIONAL WORKSHOP ON HOT AND DENSE MATTER IN RELATIVISTIC HEAVY IONCOLLISIONS, March 24-27, 2004, **Budapest**, Hungary, Ed. by G. Wolf, EP Systema, Budapest, ISBN 9632175395, (2005) p. 191-200.
- c207 Relativistic Hydrodynamics and Freeze-out for Heavy Ion Reactions L.P. Csernai - invited talk - Workshop on Heavy Ion Reaction Theory, Bogolyubov Inst. for Theoretical Physics, **Kiev**, Ukraine, July 28-31, 2005. (unpublished)
- c208. Relativistic Hydrodynamics and Freeze-out, L.P. Csernai, - invited tutorial talk - Quark Matter 2005 conference, **Budapest**, Hungary, August 3, 2005. Published electronically: http://qm2005.kfki.hu/program_all.pshtml
- c209. 3-dim. QGP fluid dynamics and flow observables - invited talk - L.P. Csernai, at the Workshop on QUARK-GLUON-PLASMA THERMALIZATION, TU Wien, **Vienna**, Austria, 10-12 August, 2005. Published electronically: <http://hep.itp.tuwien.ac.at/qgpth05/>
- c210. "Elmleti nehézi ion fizika" [Theoretical Heavy Ion Physics] L.P. Csernai - Entry lecture - as External Member of the Hungarian Academy of Sciences, **Budapest**, Hungary, Dec. 16, 2005. (under publication)
- c211. "Properties of the Quantum Fluid at RHIC", L.P. Csernai, J.I. Kapusta and L. McLerran, - Invited plenary talk at the International Conference on Strangeness in Quark Matter 2006 (SQM2006), held from March 26-31, 2006 at the University of California, **Los Angeles** (UCLA), USA. (Published in the proceedings)
- c212. "Three Decades of Collective Flow", L. P. Csernai - Invited plenary talk at the International Symposium on Heavy Ion Physics 2006, April 3 - April 6, 2006, **Frankfurt am Main**, Germany (Published in the proceedings)
- c213. "The perspectives of the Physics and Engineering Section" - L.P. Csernai - contribution to section meeting - Academia Europea Annual Conference "Brain, Matter and Mind", 21-24 Sept. 2006, **Budapest**, Hungary. (unpublished.)
- c214. "Relativistic Computational Fluid Dynamics and Modular Modeling" - L.P. Csernai - invited Keynote Talk - International Conf. on Computational Methods in Modern Physics, **Cluj**, Romania, Nov. 1-4, 2006.
- c215. Fluid Dynamics as Diagnostic Tool for Heavy Ion Collisions, - Laszlo P. Csernai - 19th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (QM2006) **Shanghai**, China, Nov. 14-20, 2006.
- c216. "Flow measurables from 3D Fluid-Dynamics, and the role of Freeze Out", - M. Zetenyi and L.P. Csernai, - inv. talk - WINTER SCHOOL ON HEAVY ION PHYSICS, Dec. 11 - 13, 2006 **Budapest**, Hungary (unpublished.)
- c217. Quark Number Scaling of Elliptic flow - Yun Cheng, M. Zetenyi and L.P. Csernai, - invited talk - International Workshop on "Numerical and Conceptual Issues in Relativistic Hydrodynamics" 16-19 April, 2007, **Frankfurt am Main**, Germany (Published electronically: <http://th.physik.uni-frankfurt.de/~ncrh/talks/>)

- c218. Advances in Three-Dimensional Relativistic Hydro PIC Codes V. Magas, L.P. Csernai, B. Schlei, D. Strottman - invited talk - International Workshop on "Numerical and Conceptual Issues in Relativistic Hydrodynamics" 16-19 April, 2007, **Frankfurt am Main**, Germany, Published electronically - <http://th.physik.uni-frankfurt.de/~ncrh/talks/>
- c219. Smoothing the initial state for RH: Hubble-like expansion without initial Bang - Volodymir Magas (associate) - invited talk - International Workshop on "Numerical and Conceptual Issues in Relativistic Hydrodynamics" 16-19 April, 2007, **Frankfurt am Main**, Germany (Published electronically - <http://th.physik.uni-frankfurt.de/~ncrh/talks/>)
- c220. Questions about viscosity - Laszlo Csernai - invited talk - International Workshop on "Numerical and Conceptual Issues in Relativistic Hydrodynamics" 16-19 April, 2007, **Frankfurt am Main**, Germany (Published electronically - <http://th.physik.uni-frankfurt.de/~ncrh/talks/>)
- c221. Stable first order special relativistic dissipative hydrodynamics - Peter Van (associate) - invited talk - International Workshop on "Numerical and Conceptual Issues in Relativistic Hydrodynamics" 16-19 April, 2007, **Frankfurt am Main**, Germany; Published electronically: <http://th.physik.uni-frankfurt.de/~ncrh/talks/>
- c222. "Collective Symmetries and Asymmetries in ultra-relativistic heavy ion collisions" -invited talk - L.P. Csernai - Advanced Studies Institute "SYMMETRIES AND SPIN" (ASI), SPIN-Praha-2007, July 8-14, 2007, **Prague**, Czech Republic (unpublished).
- c223. "The projects of the Physics and Engineering Section" - L.P. Csernai - contribution to section meeting - Academia Europea Annual General Meeting "The Dialogue of Three Cultures and our European Heritage", 2-5 Sept. 2007, **Toledo**, Spain. (unpublished.)
- c224. Relativistic Shocks and other Discontinuities - L.P. Csernai - invited talk - International Symposium - "Complex Systems in Physics and Beyond" November 30 - December 1, 2007, FIAS, **Frankfurt am Main**, Germany (Published electronically - <http://fias.uni-frankfurt.de/complex07/talks/>)
- c225. Mach cones at central LHC collisions via MACE - Bjorn Bauchle, Horst Stöcker, Laszlo P. Csernai, Jul 2007. 2pp. - Contributed to Workshop on Heavy Ion Collisions at the LHC: Last Call for Predictions, **Geneva**, Switzerland, 14 May - 8 Jun 2007. e-Print: arXiv:0707.0054 [nucl-th]
- c226. Hydrodynamical models in heavy ion collisions - invited lectures - L.P. Csernai - Summer School on Heavy ion Collisions 2008, L. Etsv University, **Budapest** July 4-9, 2008 (unpublished).
- c227. Collective flow analysis of heavy ion collisions with 3-dim ultra-relativistic hydro - talk - L.P. Csernai, Yun Cheng, S. Horvat, E. Molnar, V.K. Magas, D.D. Strottman, M. Zetenyi - Workshop on Heavy Ion Physics, China Institute of Atomic Energy, **Beijing**, 12-16 October, 2008 - Unpublished
- c228. "The Last Year Activity of the Physics and Engineering Section" - L.P. Csernai - contribution to THE section meeting - Academia Europea 20th Annual General Meeting "Promoting a Global Science Culture", 18-20 Sept. 2008, **Liverpool**, UK. (unpublished.)
- c229. Effect of Freeze-out and Hadronization on Flow in ultrarelativistic HIC - talk - M. Zetenyi, Yun Cheng, L.P. Csernai, V.K. Magas, D.D. Strottman, Workshop on Heavy Ion Physics, China Institute of Atomic Energy, **Beijing**, 12-16 October, 2008 - Unpublished
- c230. Hadronization and Freeze Out in Ultra-relativistic Collisions - invited plenary talk - L.P. Csernai, Yun Cheng, S. Horvat, V.K. Magas, E. Molnar, D.D. Strottman, M. Zetenyi, - International Symposium on Heavy Ion Physics 2008, GSI **Darmstadt**, 17-20 Nov. 2008 - Published electronically: <http://www.gsi.de/documents/DOC-2008-Nov-240-1.pdf>
- c231. LHC and matter of its extreme, relativistic heavy ion collisions, theoretical challenges - invited plenary talk - L.P. Csernai, Yun Cheng, Dan Strottman, M. Zetenyi - International Conference "From quarks to the nuclear many-body Problem", **Oslo**, May 21-24, 2008 - Unpublished
- c232. V₁ Flow for Diagnosing Ultra-relativistic Heavy Ion Collisions - invited Plenary talk - L.P. Csernai, Yun Cheng, S. Horvat, V.K. Magas, E. Molnar, D.D. Strottman, M. Zetenyi - VIII International Workshop on Relativistic Aspects of Nuclear Physics (RANP08), **Rio de Janeiro** 2-7 Nov. 2008 - published electronically: [http://omnis.if.ufrj.br/ranp/ranp/36 L. Csernai/A-Csernai-Rio-08-Talk.ppt](http://omnis.if.ufrj.br/ranp/ranp/36%20L.%20Csernai/A-Csernai-Rio-08-Talk.ppt)
- c233. Flow diagnostics of equilibrium and transport in QGP - invited talk - L.P. Csernai, Yun Cheng, S. Horvat, V.K. Magas, E. Molnar, D.D. Strottman, M. Zetenyi - Hadron Physics I3 - Nuclear Physics Workshop, **Villasimius, Sardinia**, Italy, Sept. 8-12, 2008 - published electronically: [http://www-subatech.in2p3.fr/European Network in Sardinia/Csernai.pdf](http://www-subatech.in2p3.fr/European%20Network%20in%20Sardinia/Csernai.pdf)
- c234. Collective flow analysis with 3-dim ultra-relativistic hydro - invited plenary talk - L.P. Csernai, Yun Cheng, S. Horvat, V.K. Magas, E. Molnar, D.D. Strottman, M. Zetenyi - Int. Conf. on Strangeness in Quark Matter (SQM2008) - **Beijing**, 6-10 October, 2008 - Published electronically and in J. Phys. G: Nucl. Part. Phys. 36 (2009) 064032.

- c235. "The Last Year Activity of the Physics and Engineering Section" - L.P. Csernai - contribution to the section meeting - Academia Europea 21st Annual General Meeting "Risk, Environment and Sustainable Development", 24-26 Sept. 2008, **Naples**, Italy. (unpublished.)
- c236. Fluid Dynamical modeling of Heavy Ion Reactions - L.P. Csernai - invited plenary talk - 3rd Nordic "LHC and Beyond" Workshop, - **Lund**, 2-3 Feb. 2009 - published electronically:
<http://indico.cern.ch/materialDisplay.py?contribId=13&sessionId=&materialId=slides&confId=50807>
- c237. Quarkyonic matter from hydro and rapid freeze out - invited plenary talk - L.P. Csernai, Yun Cheng, S. Horvat, V.K. Magas, I.N. Mishustin, E. Molnar, D. Strottman1, M. Zetenyi - 5th International Workshop on Critical Point and Onset of Deconfinement - CPOD 2009, June 08 - 12 2009, Brookhaven National Laboratory, **Upton, Long Island**, New York, USA - published electronically:
<http://quark.phy.bnl.gov/karsch/talks/Tue/Csernai.pdf> and *Proceedings of Science* (CPOD 2009) 022.
- c238. Collective flow in ultra-relativistic collisions - invited talk - L.P. Csernai, Yun Cheng, V.K. Magas, I.N. Mishustin, E. Molnar, D. Strottman - The 10th International Conference on Nucleus-Nucleus collisions, August 16-21, 2009, **Beijing**, China.
- c239. Quarkyonic Matter and Constituent Quark Number Scaling, L.P. Csernai, Yun Cheng, V.K. Magas, I.N. Mishustin, E. Molnar, D. Strottman, - invited talk - at the 'Flow and dissipation in ultrarelativistic Heavy Ion Collisions' Workshop at ECT* **Trento**, Italy, September 14 - 18, 2009. Published electronically:
<http://th.physik.uni-frankfurt.de/huovinen/ect/Thursday/A-Csernai-Ternto-2009.pdf>.
- c240. International Advisory Committee session - L.P. Csernai - at the 'International Conference on Strangeness in Quark Matter 2009', (SQM2009), Sep. 27 to Oct. 2, 2009, **Buzios, Rio de Janeiro**, Brazil.
- c241. "Hot and dense matter - theory" - invited plenary talk - L.P. Csernai, Yun Cheng, Sz. Horvat, V.K. Magas and D. Strottman; Nordic Winter Meeting on Physics @ FAIR, **Björkliden**, Sweden, March 22-26, 2010, <http://www.nordicfair.se/>, Published electronically:
<https://indico.gsi.de/materialDisplay.py?contribId=50&sessionId=12&materialId=slides&confId=783>
- c242. Quark Number Scaling in Fluid Dynamics and Hadronization via Quarkyonic Matter - invited plenary talk - L.P. Csernai, Y. Cheng, Sz. Horvat, I. Mishustin, and S. Zschocke; Hot and Cold Baryonic Matter, HCBM 2010, Aug. 15-20, 2010 **Budapest**, Hungary;
EPJ Web of Conferences, **13**, 07003 (2011),
and Published electronically:
<http://indico.kfki.hu/getFile.py/access?contribId=38&sessionId=7&resId=0&materialId=1&confId=4>
- c243. Quarkyonic Matter and Quark Number Scaling of Elliptic Flow - invited talk - L.P. Csernai, S. Zschocke, Sz. Horvat, Yun Cheng, and I.N. Mishustin; Quark Confinement and the Hadron Spectrum IX, Universidad Complutense, **Madrid**, August 30 - September 3, 2010; Published in AIP Conf. Proc. 1343: 468-470, 2011; and Published electronically:
<http://147.96.27.42/contributionDisplay.py?contribId=275&sessionId=124&confId=0> or
<http://147.96.27.42/getFile.py/access?contribId=275&sessionId=124&resId=0&materialId=slides&confId=0>
- c244. Sz. Horvat, L.P. Csernai and V.K. Magas, "Entropy change during the final stages of expansion in relativistic fluid dynamics calculations" - invited talk - at the "Modeling of the Parton-Hadron Phase Transition", HICforFAIR Symposium, at **Villasimius, Sardinia**, Italy, September 23 - 24, 2010, published electronically at <http://th.physik.uni-frankfurt.de/huovinen/hadronization.html> [http://th.physik.uni-frankfurt.de/ huovinen/hadrons2010/sardinia/Horvat.ppt](http://th.physik.uni-frankfurt.de/huovinen/hadrons2010/sardinia/Horvat.ppt)
- c245. Yun Cheng, V.K. Magas, B.R. Schlei, D. Strottman and L.P. Csernai, "Matching stages in heavy ion collision models" - invited talk - at the "Modeling of the Parton-Hadron Phase Transition", HICforFAIR Symposium, at **Villasimius, Sardinia**, Italy, September 23 - 24, 2010, published electronically at <http://th.physik.uni-frankfurt.de/ huovinen/hadronization.html>
<http://th.physik.uni-frankfurt.de/ huovinen/hadrons2010/sardinia/Cheng.ppt>
- c246. Sz. Horvat, S. Zschocke, L.P. Csernai, and I.N. Mishustin, "Constituent quark number scaling of the elliptic flow and the final hadronization of QGP" - invited talk - at the Toric Workshop 2010, at **Villasimius, Sardinia**, Italy, September 26 - 30, 2010 <http://www-subatech.in2p3.fr/Toric2010/ToricAgenda.html>
<http://www-subatech.in2p3.fr/Toric2010/Horvat.pdf>
- c247. Yun Cheng, Yuliang Yan and L.P. Csernai, "Solutions of Boundary Conditions from QGP to Partons" - invited talk - at the Toric Workshop 2010, at **Villasimius, Sardinia**, Italy, September 26 - 30, 2010 <http://www-subatech.in2p3.fr/Toric2010/ToricAgenda.html>
<http://www-subatech.in2p3.fr/Toric2010/Cheng.pdf>

- c248. L.P. Csernai, Yun Cheng, Sz. Horvat, V. Magas, I. Mishustin, B. Schlei, D. Strottman, S. Zschocke, "How collective flow observations indicate the QGP fluid" - invited plenary talk - at the Advances in Nuclear Physics in Our Time, **Goa**, India, 28 Nov. - 2 Dec. 2010, Proceedings: Exploring fundamental issues in Nuclear Physics, Ed. by D. Bandyopadhyay, World Scientific Publ. Co. (2012), p. 99-107.
- c249. L.P. Csernai, V.K. Magas, H. Stöcker, D.D. Strottman - V_1 Flow Component at LHC; Poster presentation at the XXII Int. Conf. on Ultrarelativistic Nucleus- Nucleus Collisions, Quark Matter **Annecy** 2011, May 22-28, 2011.
- c250. L.P. Csernai - invited talk - "Theoretical Studies of Collective Dynamics using Multi-module approach", at the CCNU-UiB-CIAE Workshop for Phenomenological Research on Heavy Ion Collisions, May 2011, **Wuhan**, China, unpublished.
- c251. V.K. Magas, L.P. Csernai, H. Stöcker, D.D. Strottman - Initial state fluctuations and their effect on the flow; Poster presentation at the XXII Int. Conf. on Ultrarelativistic Nucleus- Nucleus Collisions, Quark Matter **Annecy** 2011, May 22-28, 2011.
- c252. L.P. Csernai, V.K. Magas, A.M. Skaalvik, H. Stöcker, D. Strottman, D.J. Wang - Questions on rotating or torqued flow, instabilities, viscosity and their measurement, - invited talk, at The Network Workshop 'TORIC' 5 September - 8 September 2011, **Heraklion, Crete**, Greece. Published electronically: <http://th.physik.uni-frankfurt.de/brat/Home-NeD/TORIC.talks.html>
http://th.physik.uni-frankfurt.de/brat/Home-NeD/talks_TORIC/Sep7/Csernai.pdf
- c253. L.P. Csernai, V.K. Magas, A.M. Skaalvik, H. Stöcker, D. Strottman, D.J. Wang - Flow components and initial state CM fluctuations, - invited talk, at the Strangeness in Quark Matter 2011 Conference, Sept. 22, 2011, **Krakow**, Poland. Published electronically, <http://indico.ujk.edu.pl/conferenceTimeTable.py?confId=0#20110918>
<http://indico.ujk.edu.pl/conferenceTimeTable.py?confId=0#20110922.detailed>
and in the proceedings, Eds.: H. Bialkowska and W. Florkowski, Acta Phys. Pol. 43 (2012) 803,
- c254. L.P. Csernai, A.M. Skálvik, D.J. Wang, Cs. Anderlik, D. D. Strottman, V.K. Magas, H. Stöcker, Y. Cheng, Y.L. Yan - invited plenary talk - Directed Flow from Global Symmetry and Initial State Fluctuations, - 7th International Workshop on Critical Point and Onset of Deconfinement (CPOD), November 7-11, 2011, Central China Normal University, **Wuhan**, China. Published electronically: <http://indico.cern.ch/getFile.py/access?contribId=177&sessionId=19&resId=1&materialId=slides&confId=114962> , and to be published in the proceedings.
- c255. L.P. Csernai, A.M. Skálvik, D.J. Wang, Cs. Anderlik, D. D. Strottman, V.K. Magas, H. Stöcker, Y. Cheng, Y.L. Yan - invited plenary talk - Different initial states and the collective flow, at the Zimnyi 2011 Winter School on Heavy Ion Physics, November 28 - December 2, 2011, **Budapest**, Hungary, Published electronically: <http://indico.cern.ch/getFile.py/access?contribId=42&sessionId=12&resId=1&materialId=slides&confId=163821> .
- c256. L.P. Csernai, - invited plenary talk - Introduction of the Academia Europaea, at the Zimányi 2011 Winter School on Heavy Ion Physics, November 28 - December 2, 2011, **Budapest**, Hungary, Published electronically: <http://indico.cern.ch/getFile.py/access?contribId=52&sessionId=16&resId=0&materialId=slides&confId=163821> .
- c257. "Can we see consequences of low viscosity of Quark-Gluon Plasma?", L.P. Csernai, D.D. Strottman and Cs. Anderlik, - invited FIAS Colloquium, Frankfurt Institute for Advanced Studies, **Frankfurt**, Germany, February 9 (2012); Published electronically: <http://fias.uni-frankfurt.de/kollo/index.html>
- c258. "Quark Gluon Plasma search: from heavy ion collisions to neutron stars", (1,2,3); L.P. Csernai, invited lecture series, Faculty of Physics, University of Barcelona, **Barcelona**, Spain, May 14-19, 2012.
- c259. "Kelvin-Helmholz instability in peripheral heavy ion collisions"; L.P. Csernai, invited talk at "A symposium on contemporary subatomic physics", **Montreal**, Canada, June 12-14, 2012.
- c260. Kelvin-Helmholz instability in heavy ions; L.P. Csernai, invited talk at the 2nd International Symposium on Non-equilibrium Dynamics and 3rd TURIC Network Workshop, 25 - 30 June 2012, **Hersonissos, Crete**, Greece. Published electronically: <http://fias.uni-frankfurt.de/crete2012/talks.html>
- c261. Turbulent instability in low viscosity quark-gluon plasma, by Laszlo Pal CSERNAI, Daniel D. STROTTMAN, Csaba ANDRERLIK, Published electronically: <https://indico.cern.ch/contributionDisplay.py?contribId=23&sessionId=37&confId=181055> / Csernai-et-al-ID23-Turbulent.pdf, Poster Contribution, Quark Matter 2012, 12-18 Aug. 2012, **Washington DC**, USA
- c262. New method for measuring longitudinal fluctuations and directed flow in ultrarelativistic heavy ion collisions, by Gyulnara EYYUBOVA, Laszlo Pal CSERNAI, Volodymyr MAGAS, Published electronically: <https://indico.cern.ch/contributionDisplay.py?contribId=584&sessionId=37&confId=181055> / Csernai-et-al-ID584-New_method.pdf, Poster Contribution, Quark Matter 2012, 12-18 Aug. 2012, **Washington DC**, USA

- c263. "Kelvin-Helmholtz instability in quark-gluon plasma" - L.P. Csernai, invited talk, at the 2nd European Nuclear Physics Conference (EuNPC), 16-21 September 2012, **Bucharest**, Romania, Published electronically:
<http://www.nipne.ro/indico/getFile.py/access?contribId=94&sessionId=2&resId=0&materialId=slides&confId=0> ;
<http://www.nipne.ro/indico/conferenceTimeTable.py?confId=0#20120920.detailed>
- c264. "Initial States and Global Dynamics versus Fluctuations" - L.P. Csernai, invited talk, at the 8th International Workshop on High pT Physics at LHC (HPT2012) 21-24 October 2012, Central China Normal University, **Wuhan**, China; Published electronically:
<http://indico.cern.ch/conferenceTimeTable.py?confId=181834#20121022> and
<http://indico.cern.ch/conferenceTimeTable.py?confId=181834#20121021.detailed>
- c265. Global Dynamics versus Fluctuations and Initial State, L.P. Csernai, invited lecture, Faculty of Physics, University of Catania, **Catania**, Italy, Nov 21, 2012.
- c266. Boldog születésnapot Judit!, talk at the Celebration of the 80th birthday of Prof. Judit Németh, L. Eötvös University, Oct. 11, 2012, **Budapest**, Hungary (unpublished)
- c267. Turbulence in Heavy Ion Reactions, - L.P. Csernai, invited talk, at the 12th Zimnyi - Winter School on Heavy Ion Physics, Dec. 3-7., 2012, **Budapest**, Hungary; Published electronically:
<https://indico.cern.ch/conferenceOtherViews.py?confId=218974>
<https://indico.cern.ch/materialDisplay.py?contribId=22&sessionId=7&materialId=slides&confId=218974>
- c268. "Fluctuations in hadronizing quark-gluon plasma" - invited talk - L.P. Csernai, G. Mocanu, Z. Nédia and D.J. Wang, at the 'Fluctuations and Correlations at the QCD Phase Transition', EMMI Kick-Off meeting, GSI, Feb. 11-12, 2013, **Darmstadt**, Germany; Published electronically:
<https://indico.gsi.de/conferenceDisplay.py?confId=2107>
- c269. "Three decades of collective flow" - invited talk - L.P. Csernai, at the Int Conf. on Frontiers in Nuclear Physics, **Guadeloupe**, France, 11-15 March 2013
- c270. "Fluid Dynamics in High Energy Collisions", - invited talk - L.P. Csernai, at the Int Conf. on Proton-Proton Interactions and Beyond, Statistical Particle Production (SPP) series, 29 April - 03 May 2013, **Bad Liebenzell**, Germany; Published electronically:
<https://indico.cern.ch/conferenceTimeTable.py?confId=237345>
- c271. "Two Particle Correlation Method to Detect Rotation in Heavy Ion Collisions" - Dujuan Wang (supervisor: L.P. Csernai) - talk at the Palaver of the Institut fuer Theoretische Physik, Universitaet Frankfurt, **Frankfurt**, Germany, May 27, 2013.
- c272. "Turbulence in the Low Viscosity Quark-gluon Plasma" - invited talk - L.P. Csernai, at the Symposium on Nuclear Physics: Presence and Future, 29 May - 05 June, 2013, **Boppard**, Germany, Nuclear Physics: Present and Future - FIAS Interdisciplinary Science Series 2015, pp 175-181, ISBN 978-3-319-10198-9, DOI 10.1007/978-3-319-10199-6-17, (Springer International Publishing) Date: 18 Sep 2014,
- c273. "Review of Recent Results from Fluid Dynamics" - invited talk [HD019] I - L.P. Csernai, at the Int. Nuclear Physics Conference, **Firenze**, Italy, June 2-7, 2013; EPJ Web of Conferences **66** 04007 (2014).
- c274. "Differential HBT method to analyse rotation" - Poster [NR042] - L.P. Csernai, S. Velle, D.J. Wang, at the Int. Nuclear Physics Conference, **Firenze**, Italy, June 2-7, 2013
- c275. "Turbulence, Vorticity and Lambda Polarization" - invited talk - L.P. Csernai, at the Int. Conf. on Strangeness in Quark Matter (SQM) 2013, 21-27 July, 2013, **Birmingham**, UK
- c276. "Can time-like shocks ignite the pellets in the National Ignition Facility?" - invited seminar talk - L.P. Csernai, at the Physics Department, University of Minnesota, **Minneapolis**, USA, 27 August, 2013.
- c277. Rotation and Turbulent Instability in Peripheral Heavy Ion Collisions, L.P. Csernai and D.J. Wang, - invited plenary talk at the - Int. Conf. on New Frontiers in Physics, ICNFP 2013, 28 Aug. - 5 Sept., 2013, **Kolymbari**, Greece, to be published.
- c278. "Low viscosity, rotation, vorticity, turbulence and their experimental signatures" - invited plenary talk - L.P. Csernai, at the 9th Int. Conf. on Relativistic Aspects of Nuclear Physics, September 23 to 27, 2013, **Rio de Janeiro**, Centro Brasileiro de Pesquisas Físicas, Brazil.
- c279. "Rotation and Turbulence in Low Viscosity QGP and its Measurement" - invited plenary talk - L.P. Csernai, at the 13th Zimnyi Winter School on Heavy Ion Physics, Dec. 2 - 6, **Budapest**, Hungary.
- c280. "Recent Applications of the Hydro PIC Code", talk - SPIRE-Workshop on Hydro in Heavy Ion Collisions, **Bergen**, 9-13 December, 2013. Published electronically: <http://folk.uib.no/dwa015/C1/>
- c281. "Fusion at the National Ignition Facility?" talk - SPIRE-Workshop on Hydro in Heavy Ion Collisions, **Bergen**, 9-13 December, 2013. Published electronically: <http://folk.uib.no/dwa015/C1/>

- c282. "Differential HBT Method to Detect Rotation", - talk - Laszlo P. Csernai, Wigner-CCNU Mini Workshop, April 7 - 8, 2014 **Budapest**, at MTA Wigner RCP, <http://indico.kfki.hu/conferenceDisplay.py?confId=191>
- c283. "The DHBT method to detect rotation in high-energy heavy-ion collisions" - invited talk - L.P. Csernai, at the 2014 CBCOS Workshop for Phenomenological Research on Heavy-Ion Collisionsff May 9 - 14, CCNU, **Wuhan**, China, Published electronically: http://folk.uib.no/csernai_lp/C2/C2.htm http://folk.uib.no/csernai_lp/C2/1-Csernai-Wuhan-2014-May.ppt
- c284. "Separation of Global Collective and Fluctuating Flow Patterns" - invited talk - L.P. Csernai and H. Stöcker, 3rd International Symposium on Non-equilibrium Dynamics and 3rd TURIC Network Workshop, 9 - 14 June 2014, **Hersonissos**, Crete, Greece, published electronically: <http://fias.uni-frankfurt.de/crete2014/talks.html> <http://fias.uni-frankfurt.de/crete2014/talks/11/Csernai.pdf>
- c285. "Differential HBT Method to Analyse Rotation in Heavy Ion Collisions", - invited talk - L.P. Csernai, S. Velle, and D.J. Wang, Proc. of the XXIV Int. Conf. Quark Matter 2014, **Darmstadt**, Germany, 14-19 May, 2014, Published electronically: <https://indico.cern.ch/event/219436/session/10/contribution/395> Nucl. Phys. A [NPA-D-14-00398] submitted 2014.07.31
- c286. "New Collective Processes in High Energy Heavy Ion Collisions" - departmental colloquium - L.P. Csernai, at the Physics Department, University of Barcelona, **Barcelona**, Spain, July 17, 2014, unpublished.
- c287. "Identifying longitudinal rapidity fluctuations and directed flow measurements" Gyulnara Eyyubova, Laszlo Csernai, Volodimir Magas, - Invited talk at the International Workshop on Collectivity in Relativistic Heavy Ion Collisions, 14-20 September, 2014, **Kolymbari**, Crete, Greece
- c288. "Global collective flow in heavy ion reactions from the beginnings to the future" - L.P. Csernai, Invited talk at the EMMI Nuclear and Quark Matter Seminar, Sept. 24, 2014, **Darmstadt**, Germany
- c289. "Cooperation between Natural and Social Sciences: Towards a New Knowledge Hub" - L.P. Csernai, Invited talk at the Institute for Social and European Studies - Workshop, Nov. 3-4, 2014, **Kőszeg**, Hungary
- c290. Collective Correlations in Heavy Ion Collisions Laszlo P.Csernai, - invited talk - Workshop on Particle Correlations and Femtoscopy (WPCF-2014), 25-29 Aug. 2014, **Gy'ongy'os**, Hungary
- c291. "Rotation in Fluid Dynamics, Instabilities, and their Observation", L.P. Csernai, - Invited talk at the Zimanyi School, **Budapest**, Hungary, Dec. 1-5, 2014.
- c292. "Global Collective Flow in Heavy Ion Reactions" Laszlo P.Csernai, - invited talk - CERN - Heavy Ion Forum, Jan. 23, 2015, **CERN Geneva**, Switzerland.
- c293. "Volume Ignition via Time-like Detonation in Pellet Fusion" Laszlo P. Csernai and Daniel D. Strottman, - invited talk - 35th Hirscheegg Int. Workshop on High Energy Density Physics, Jan. 25-30, 2015, **Hirscheegg**, Austria
- c294. "Volume Ignition in Pellet Fusion" - Frankfurt Institute for Advanced Studies (FIAS) - Colloquium talk - Laszlo P. Csernai - April 9, 2015, **Frankfurt am Main**, Germany.
- c295. "Relativistic Fluid Dynamics for Modelling Inertial Confinement Fusion", Laszlo P. Csernai and Daniel D. Strottman, - invited talk - International Conference and Exhibition on Energy Science Technology (EST) - Karlsruhe Convention Centre, May 20-12, 2015, **Karlsruhe**, Germany.
- c296. "Collective dynamics, fluctuations and instabilities in relativistic heavy ion collisions", - invited plenary talk - Laszlo P. Csernai, 12th International Conference on Nucleus-Nucleus Collisions (NN2015), June 21-26, 2015, **Catania**, Italy.
- c297. Separating Collective Flow and Fluctuations in Peripheral Relativistic Heavy Ion Collisions - Laszlo P. Csernai - Invited plenary talk - Balaton Workshop, **Tihany**, Hungary July 11-17, 2015.
- c298. Collective dynamics, in relativistic heavy ion collisions - Laszlo P. Csernai - talk at the meeting: Exploring the Shores of Fundamental Matter: Advances around the Northern Seas (NorSAC-2015), **Bergen**, Norway, July 29 - Aug. 3, 2015.
- c299. What will the Future contain? Questions of energy supply. - Laszlo P. Csernai - talk at the meeting: Exploring the Shores of Fundamental Matter: Advances around the Northern Seas (NorSAC-2015), **Bergen**, Norway, July 29 - Aug. 3, 2015.
- c300. Soft physics of heavy ion collisions, Laszlo P. Csernai - Invited plenary talk - 4th International Conference on New Frontiers in Physics (ICNFP2015), **Kolymbari**, Crete, Greece, 23-30 August 2015.
- c301. Collective processes in HighEnergy Heavy Ion Collisions, Laszlo P. Csernai, - Colloquium talk - China University of Geosciences, **Wuhan**, China, 18 September 2015.
- c302. Relativistic modeling of Inertial Confinement Fusion, Laszlo P. Csernai, - Public talk - Wuhan University of Technology, **Wuhan**, China, September 21, 2015.

- c303. Fluctuations, Instabilities and Collective Dynamics - L. P. Csernai and H. Stöcker - Poster presentation - Quark Matter 2015 - The XXV international conference on ultrarelativistic heavy-ion collisions, **Kobe**, Japan, Sept. 27 - Oct. 3, 2015.
- c304. Actual questions of energy supply, Az energiaellátás aktuális kérdései - Laszlo P. Csernai - Colloquium talk - University of Pannonia, **Veszprém**, Hungary July 16, 2015.
- c305. Comments on Energy Storage, - Laszlo P. Csernai - Invited talk - ISES Workshop, **Köszeg**, Hungary, September 19-21, 2015.
- c306. Physical basis of Limits to Growth, - Laszlo P. Csernai - Invited talk - Second European Blue Sky Conference, 29-31 October, 2015, **Budapest** Royal Castle, Hungary
- c307. Advances in Relativistic Nuclear Fluid Dynamics up to Rotation and Turbulence, Laszlo P. Csernai, Yilong Xie, Dujuan Wang, Yun Cheng, Yuliang Yan, Benhao Sa, Cai Xu, Daimei Zhou, Sindre Velle, Jonas Inderhaug, Horst Stöcker, Marcus Bleicher, and Francesco Becattini, - International Symposium on New Horizons in Fundamental Physics, **Makutsi**, South Africa, 21-30 November 2015.
- c308. Observable signs of Rotation and Turbulence in Heavy Ion Reactions, -invited talk - Laszlo P. Csernai, Yilong Xie, 15. Zimányi Winter School on Heavy Ion Physics, Dec 7-11, 2015, **Budapest**, Hungary
- c309. Az energiagazdálkodás aktuális kérdései (Actual Questions of Energy Production) - invited keynote lecture - Laszlo P. Csernai XXIII International Energy and Innovation Forum, Feb. 16-19, 2016, **Visegrád**, Hungary
- c310. Fundamental Physics of Sustainable Development - Colloquium talk - Laszlo P. Csernai, Wuhan University of Technology, Dept. of Physics, March 17, 2016, **Wuhan**, China
- c311. Signatures of rotation and turbulence in peripheral, high-energy nuclear reactions, - Colloquium talk - Laszlo P. Csernai, Central China Normal University, IOPP & CPST, March 18, 2016, **Wuhan**, China
- c312. History of Physics in Bergen and of Sustainable Development, - invited talk - Laszlo P. Csernai, 2nd Int. Conf. on History of Physics, Sept. 5-7, 2016, **Pöllau**, Austria
- c313. Compact initial state for peripheral heavy ion reactions and its consequences, - invited talk - Laszlo P. Csernai, V.K. Magas, D.D. Strottman, S. Velle, Y.L. Xie, Hard Probes 2016, 8th Int. Conf. on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions, September 23-27, 2016, **Wuhan**, China, Nucl. & Part. Phys. Proc. **289-290**, 465-469 (2017).
- c314. Physics of Sustainable Development - Colloquium talk - Laszlo P. Csernai, Wuhan University of Technology, September 28, 2016, **Wuhan**, China
- c315. Shear, turbulence and its observable consequences in heavy ion reactions - Invited talk - Laszlo P. Csernai, New Trends in High Energy Physics, Becici, **Budva**, Montenegro, 2-8 October, 2016.
- c316. Initial state with shear and vorticity in streak by streak Bjorken coordinates Invited talk - L. P. Csernai, V. K. Magas, D. Strottman, S. Velle, Y.L. Xie, Relativistic Hydrodynamics: Theory and Modern Applications, 10-14 October 2016, Mainz Institute for Theoretical Physics, J. Gutenberg University, **Mainz**, Germany.
- c317. Sustainability and Competitiveness of Energy Supply in Europe, Invited contribution to discussion - L. P. Csernai, Deutsch-Ungarisches Forum 2016, 26 October (2016), **Budapest**, Hungary.
- c318. Sustainability and of Energy Supply in Europe - L.P. Csernai, Invited talk, Research Seminar at iASK Koszeg, 3-4. November (2016), Europa house, Bibo room, **Koszeg**, Hungary.
- c319. Initial state with shear and vorticity in (τ, η) coordinates - L.P. Csernai - 16. Zimányi Winter School on Heavy Ion Physics, **Budapest**, Hungary, Dec. 5-9, (2016).
- c320. Initial state and Lambda polarization - L.P. Csernai , Current status of QCD from nuclear reactions to the high energy frontier COST-THOR meeting - FIAS, **Frankfurt am Main**, Jan 19-20, (2017).
- c321. Energy and sustainable development - (Energia es fenntarthatóság) - Laszlo P. Csernai, XXIV. International Energy and Innovation Forum (Nemzetközi Energia és Innovációs Fórum), **Esztergom**, Hungary, March 7-9, (2017).
- c322. Initial state with shear and vorticity in streak by streak Bjorken coordinates - Laszlo P. Csernai, Facultat de Fisica, Seminar del Dep. de Fisica Quantica i Astrofísica, **Barcelona**, Spain, Dijous 23 de Marc de (2017).
- c323. Sustainable development and energy - Laszlo P. Csernai, High-Energy Physics Workshop, Bogolyubov Institute for Theoretical Physics, **Kiev**, Ukraine, April 5-6, (2017).
- c324. Recent Trends in Fluid Dynamics - L.P. Csernai, International School "Relativistic Heavy Ion Collisions, Cosmology and Dark Matter, Cancer Therapy", **Oslo**, Norway, 15-26 May (2017).
- c325. Fluid Dynamics for Heavy Ions from the beginnings up to now - Dedicated to Walter Greiner - L.P. Csernai, FIAS International Symposium on Discoveries at the Frontiers of Science, **Frankfurt am Main**, Germany, June 26-30, (2017).

- c326. Vorticity and Polarization from shear flow in peripheral heavy-ion collisions as a tool for determining transport properties - L.P. Csernai, The Light, Color, and Dense Matter Symposium, **Minneapolis**, MN, USA, June 12 - 14, (2017).
- c327. Advances in Relativistic Fluid Dynamics, Observables, and Applications - L.P. Csernai, 6th Int. Conf. on New Frontiers in Physics, **Kolymbari**, Crete, Greece, 17-29 August (2017).
- c328. Activities of the Academia Europaea Bergen Knowledge Hub, L.P. Csernai (Hub Academic manager), Academia Europaea Annual General Conference, **Budapest**, Hungary, Sept. 3-7, (2017)
- c329. Relativistic Fluid Dynamics in heavy-ion physics and in laser-driven pellet fusion - L.P. Csernai, FIAS Colloquium, Frankfurt Institute for Advanced Studies, **Frankfurt am Main**, Germany, Sept. 28 (2017).
- c330. Relativistic Fluid Dynamics in Heavy Ion collisions, Nano-Technology and Laser driven Pellet Fusion, - L.P. Csernai - IFT Colloquium, **Bergen**, Feb. 16, 2018 with N. Kroo, Hungarian Acad. Sci. Budapest, & I. Papp, Babes-Bolyai Univ., Cluj.
- c331. Science, Energy and Sustainability-2018 (The role of Water), - L.P. Csernai - Keynote talk, 25th International Energy and Innovation Forum, 27th February, 2018, **Budapest**, Hungary.
- c332. Lambda polarization in peripheral heavy ion collisions, Laszlo Pal Csernai, Yilong Xie, Dujuan Wang, Marcus Bleicher and Horst Stoecker, - invited talk - Workshop on Chirality, Vorticity and Magnetic Field in Heavy Ion Collisions, 19-22 March 2018, Galileo Galilei Institute, **Firenze**, Italy.
- c333. Relativistic Fluid Dynamics, Nano-Technology and Laser driven Pellet Fusion, - invited talk - L.P. Csernai, Uni. Bergen, N. Kroo, Hungarian Acad. Sci. Budapest, I. Papp, Babes-Bolyai Univ., Cluj; at the EU Extreme Light Infrastructure - Attosecond Light Pulse Source (ELI-ALPS), Apr. 20, 2018, **Szeged**, Hungary
- c334. Spin-offs from the rapid, volume hadronization of QGP applied at other scales for transitions in extreme hot and dense matter, László Pál Csernai, Norbert Kroó, István Papp, D.D. Strottman, - Poster presentation - Quark Matter 2018, **Lido di Venezia**, Italy, May 13-19, 2018.
- c335. Open questions in Lambda polarization after QM18, -invited talk - L.P. Csernai, COST-THOR Workshop, **Lisbon**, Portugal, June 11-14, 2018.
- c336. Advances and questions on Lambda polarization in Heavy Ion reactions, - invited seminar talk - L.P. Csernai, University of Bergen & Wuhan Univ. of Technology, at the China University of Geosciences, **Wuhan**, 21 June, 2018.
- c337. Spin-offs from relativistic Heavy Ions to Inertial Confinement Fusion, - invited seminar talk - L.P. Csernai, at the University of Science and Technology of China, **Hefei**, China, June 26, 2018.
- c338. Advances and questions on Λ polarization in Heavy Ion reactions, - invited seminar talk - L.P. Csernai, University of Bergen & Wuhan Univ. of Technology, at the Huazhong Normal University, **Wuhan**, China, June 28, 2018.
- c339. Hadronization of QGP over timelike hypersurfaces and its extension to fusion reactions with nano-plasmonics, - invited talk - L.P. Csernai, Int. Conf. on New Frontiers in Physics, **Kolymbari**, Crete, Greece, July 3-14, 2018.
- c340. Laser induced fusion with nano-plasmonics, - invited talk - L.P. Csernai, Wigner Research Center for Physics, **Budapest**, Hungary, Aug. 6, 2018.
- c341. Radiation dominated implosion with plasmonic nano-shells, - invited talk - Laszlo P. Csernai, N. Kroo, and I. Papp, Int. Conf. on Heavy Ion Fusion 2018, **Daejeon**, South-Korea, Aug. 19-24, 2018.
- c342. Radiation dominated implosion with nano-shells, - poster presentation - Laszlo P. Csernai, N. Kroo, and I. Papp, Int. Conf. of the Int. Committee on Ultrahigh Intensity Lasers, **Lindau**, Germany, September 9-14, 2018.
- c343. Sustainable development, energy and entropy - invited keynote talk - L.P. Csernai, 4th International Conference on Physics, September 17-18, 2018, **Berlin**, Germany.
- 344. Fluid dynamical phenomena in QGP and its recent experimental signatures - invited keynote talk - L.P. Csernai, The Critical Point and Onset of Deconfinement (CPOD 2018), **Corfu Island**, Greece, September 23-28, 2018.
- 345. Energy and Sustainable Development - invited talk & Video (30min), L.P. Csernai, The 3rd BlueSky Conference, **Royal Castle Budapest**, Hungary, November 23-25, 2018.
- 346. Open questions on polarization and vorticity, invited talk - L.P. Csernai, 18th Zimanyi School & Winter Workshop on Heavy Ion Physics, Dec. 3-7, 2018, **Budapest**, Hungary.
- c347. Radiation dominated implosion with flat, cylindrical target - invited talk - L.P. Csernai, 39th Int. Workshop on PHEDM, **Hirschegg**, Jan 27-Feb 3, 2019.
- c348. Global and local Lambda polarization in high energy heavy ion collisions - invited talk - Yilong Xie and L. P. Csernai, The 5th Workshop on Chirality, Vorticity and Magnetic Field in Heavy Ion Collisions,

Tsinghua University, **Beijing**, April 8-12, 2019.

- c349. Laser driven ignition for inertial confinement fusion - invited colloquium talk - L.P. Csernai, University of Szeged, May 3, 2019, **Szeged**, Hungary
- c350. Lambda polarization in peripheral heavy ion collisions - invited talk - L.P. Csernai, New Trends in High-Energy Physics, May 12-18, **Odessa**, Ukraine
- c351. Compact, laser driven ignition with flat target - invited talk - L.P. Csernai, Int. Conf. on Innovative Fusion Approaches, **Xi'an**, China, May 26-28, 2019.
- c352. Compact, laser driven ignition with two beams - invited colloquium talk - L.P. Csernai, China University of Geosciences, **Wuhan**, China, June 3, 2019.
- c353. Laser driven rapid volume ignition with two beams - invited colloquium talk - L.P. Csernai, L. Eötvös University, Dept. of Theoretical Physics, **Budapest**, Hungary, June 12, 2019.
- c354. Laser driven rapid volume ignition - invited talk - L.P. Csernai, Balaton Workshop 2019, **Tihany**, Hungary June 17-21, 2019.
- c355. Laser induced pellet fusion based on ultrarelativistic heavy ion physics - invited talk - L.P. Csernai, Int. Conf. on New Frontiers in Physics - 2019, **Kolymbari**, Crete, August 21-29, 2019
- c356. Laser driven fusion for energy - invited talk - L.P. Csernai, Int. Workshop on Collectivity - 2019, **Kőszeg**, Hungary, Sept. 14-19, 2019.
- c357. Laser induced pellet fusion with flat target - invited colloquium talk - L.P. Csernai, ENN Science and Technology Development Co., **Langfang**, Hebei province, China, October 29-31, 2019.
- c358. Laser driven fusion for energy with two beams - invited colloquium talk - L.P. Csernai, Wuhan University of Technology **Wuhan**, China, November 7, 2019.
- c359. Response to comments on laser induced pellet fusion with nano-spheres and flat target - invited colloquium talk - L.P. Csernai - , Wigner RCP, **Budapest**, Hungary, December 10, 2019.
- c360. Relativistic Laser Fusion with Nanotechnology - invited seminar talk - L.P. Csernai, Fusion forum, February 11, 2020 , **Budapest**, Dept. of State Secretary for the Capacity Maintaining of Paks Nuclear power Station.
- c361. Nanoplasmonic Laser Fusion - Invited talk (v), L.P. Csernai for the NAPLIFE Collaboration, Int. Conf. on New Frontiers in Physics, **Kolymbari, Crete**, Greece, Sept. 11, 2020.
- c362. Effect of hadronic interactions on Lambda polarization - Invited talk (v), Yilong Xie, Laszlo P. Csernai, Dujuan Wang, ECT* Workshop on Spin and Hydrodynamics in Relativistic Nuclear Collisions, **Trento**, Italy, Oct. 5 - 15, 2020.
- c363. Nano-plasmonic Laser Studies, - Invited presentation (v), Laszlo P. Csernai, for the NAPLIFE Collaboration, Univ. of Bergen, Norway BMBF Verbundforschung meeting for HED@FAIR, 7 October 2020, GSI Helmholtzzentrum, **Darmstadt**, Germany
- c364. Nanoplasmonikus Lézeres Fúzió Kutatólaboratórium, Ismertetés az MTA Fizika Osztály részére, T.S. Bi'ó, N. Kroó, L.P. Csernai, Wigner RCP, **Budapest**, Hungary, Okt. 17, 2020,
- c365. High Performance Computing for Nanoplasmonic Laser Fusion, István Papp, Larissa Bravina, Mária Csete, Igor N. Mishustin, Dénes Molnár, Anton Motornenko, Leonid M. Satarov, Horst Stöcker, Daniel D. Strottman, András Szenes, Dávid Vass, Tamás S. Biró, László P. Csernai, Norbert Kroó. Wigner RCP, **Budapest**, Hungary, Okt. 21, 2020,
- c366. Laser Induced Nano Fusion, L.P. Csernai, for the NAPLIFE Collaboration, 10th Int. Conf. on New Frontiers in Physics 2021, **Kolymbari**, Crete, Greece, 30 August 2021.
- c367. Nano Fusion, a new way for Laser Driven Fusion, L.P. Csernai for the NAPLIFE Collaboration, Colloquium, University of Barcelona, **Barcelona**, 14 July 2021.
- c368. Brief introduction of the NAPLIFE activity, L.P. Csernai for the NAPLIFE Collaboration, Introduction of National Laboratories for the Tét delegates of NKFIH **Budapest**, 31. May 2021.
- c369. Energiaközlés fénysebességgel, L.P. Csernai for the NAPLIFE Collaboration, Introduction of National Laboratories **Budapest**, 27. May 2021.
- c370. Nanoplasmonikus Lézeres Fúzió Kutatólab II, L.P. Csernai for the NAPLIFE Collaboration, Kvantumelektronika Szimpózium 2021 **Szeged**, 28. Jan. 2021.
- c371. Development in Nano Fusion, Laszlo Csernai - invited talk - 42nd Workshop on High-Energy-Density Physics with laser and Ion beams, **Hirschegg Zoom**, January 31st to February 4th, 2022.