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Higher harmonics and flow at FAIR energies

Tuesday, 15 May 2018 19:10 (30 minutes)

In this presentation we make comparisons between hydrodynamic behavior in UrQMD/CASCADE [1], UrQMD/HYDRO, AMPT and Chaos Many-Body Engine [2] Au+Au simulated events at CBM-FAIR energies. We analyze the properties of different flow streams classes [1] and of the Fourier coefficients in the mentioned interaction models as a function of incident energy, rapidity and impact parameter.

[1] Danut Argintaru, Calin Besliu, Alexandru Jipa, Tiberiu Esanu, Valerica Baban, Madalin Cherciu, and Valeriu Grossu, Flow shapes and higher harmonics in anisotropic transverse collective flow, Eur. Phys. J. A (2017) 53: 6;

[2] I.V. Grossu, C.Besliu, D.Felea, , Al.Jipa, High precision framework for Chaos Many-Body Engine, March 2013 Computer Physics Communications 185(4)

Content type

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Primary author: Dr ARGINTARU, Danut (Constanta Maritime University, Romania)

Co-authors: Prof. JIPA, Alexandru (University of Bucharest, Faculty of Physics, Romania); Dr GROSSU, Ioan Valentin (University of Bucharest, Faculty of Physics, Romania); Prof. BESLIU, Calin (University of Bucharest, Faculty of Physics, Romania); Dr BABAN, Valerica (Constanta Maritime University, Constanta City, Romania); Dr RISTEA , Oana (University of Bucharest, Faculty of Physics, Romania); Dr RISTEA , Catalin (University of Bucharest, Faculty of Physics, Romania); Prof. LAZANU, Ionel (University of Bucharest, Faculty of Physics, Romania); Dr ESANU, Tiberiu (2University of Bucharest, Faculty of Physics, Romania and Horia Hulubei National Institute for Nuclear Physics and Engineering, Magurele, Romania); Dr TUTURAS, Nicolae (University of Bucharest, Faculty of Physics, Romania); Dr FELEA, Daniel (Institute of Space Science, Magurele, Romania)

Presenter: Dr ARGINTARU, Danut (Constanta Maritime University, Romania)

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