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Nuclear Theory

Initial fluctuations and dihadron and \$_V\$-hadron correlations in high-energy heavy ion collisions

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(Submitted on 30 Jun 2011 (v1), last revised 14 Nov 2011 (this version, v2))

Jets, jet-medium interaction and hydrodynamic evolution of fluctuations in initial parton density all lead to the final anisotropic dihadron azimuthal correlations in high-energy heavy-ion collisions. We remove the harmonic flow background and study the net correlations from different sources with different initial conditions within the AMPT model. We also study \$\gamma\$hadron correlations which are only influenced by jet-medium interactions.

Comments: 4 pages, Proceedings for Quark Matter 2011

Conference, May 23-28, 2011, Annecy, France; v2: final

published version

Subjects: Nuclear Theory (nucl-th); High Energy Physics -

Phenomenology (hep-ph); Nuclear Experiment (nucl-ex)

Journal reference: J. Phys. G: Nucl. Part. Phys. 38 (2011) 124156

DOI: 10.1088/0954-3899/38/12/124156

Cite as: arXiv:1106.6126 [nucl-th]

(or arXiv:1106.6126v2 [nucl-th] for this version)

Submission history

From: Guo-Liang Ma [view email]

[v1] Thu, 30 Jun 2011 07:07:39 GMT (42kb)

[v2] Mon, 14 Nov 2011 08:15:59 GMT (42kb)

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