Cornell University Library

We gratefully acknowledge supp
the Simons Fo
and member ins

Search or Article-id

(Help | Advance

All papers

Nuclear Theory

The flow of heavy flavor in hydrodynamics

Taesoo Song, Woosung Park, Su Houng Lee

(Submitted on 28 Jun 2011)

The flow of charm is calculated in 2+1 ideal hydrodynamics by introducing the charge of $c\bar{c}$ pair assuming that the number of $c\bar{c}$ pairs is conserved in relativistic heavy-ion collisions. It is found that the mean radial flow velocity of charm quarks is smaller than that of bulk matter by 10 $\sim$15 \% and the measured v_2 of heavy-flavor electrons is reproduced up to $p_T^e=$ 1.5 GeV/c in Au+Au collision at RHIC. The same flow is applied to regenerated J/ψ and its v_2 is discussed.

Comments: 6 pages, 7 figures
Subjects: **Nuclear Theory (nucl-th)**; Nuclear Experiment (nucl-ex)
Cite as: **arXiv:1106.5802 [nucl-th]**
              (or **arXiv:1106.5802v1 [nucl-th]** for this version)

Submission history

From: Taesoo Song [view email]
[v1] Tue, 28 Jun 2011 21:10:56 GMT (202kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

Download:

- PDF
- PostScript
- Other formats

Current browse cont

nucl-th
< prev | next >
new | recent | 1106

Change to browse b

nucl-ex

References & Citatio

- INSPIRE HEP
  (refers to | cited by)
- NASA ADS

Bookmark(what is this?)

ScienceWISE