

EMMI RRTF - Extraction of HF transport coefficients in QCD matter

GSI, July 18-22, 2016

summary of “pre-meeting results” (redone post-meeting) - Pb-Pb, $\sqrt{s_{NN}} = 2.76$ TeV, 0-10%, 30-50%

December 19, 2016

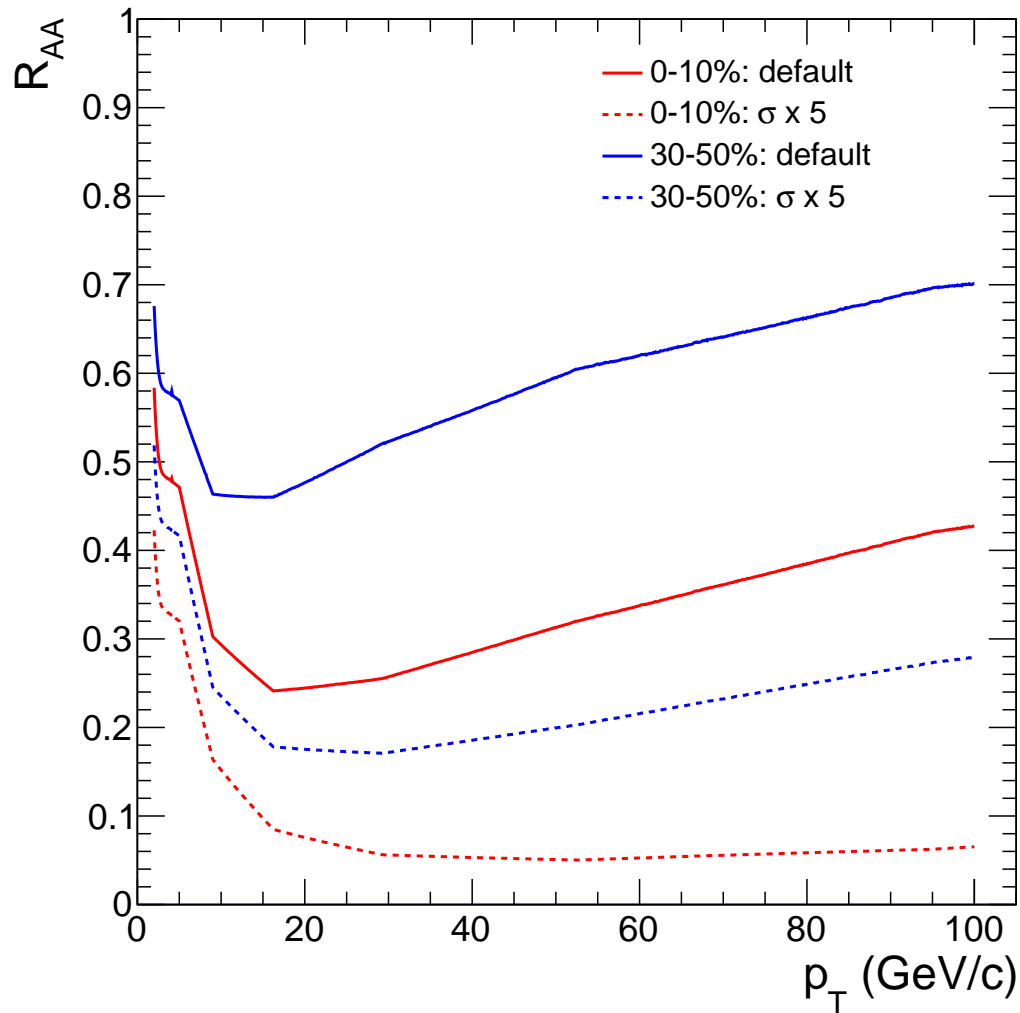
- Vitev
- UrQMD (van Hees, Inghirami, Bleicher)
- TAMU (He, Rapp)
- Catania (Das, Greco)
- Djordjevic
- Nantes (Gossiaux)
- LBL-CCNU (Cao, Wang)
- Duke-Langevin (Cao)
- POWLANG (Beraudo)

Vitev - charm quarks

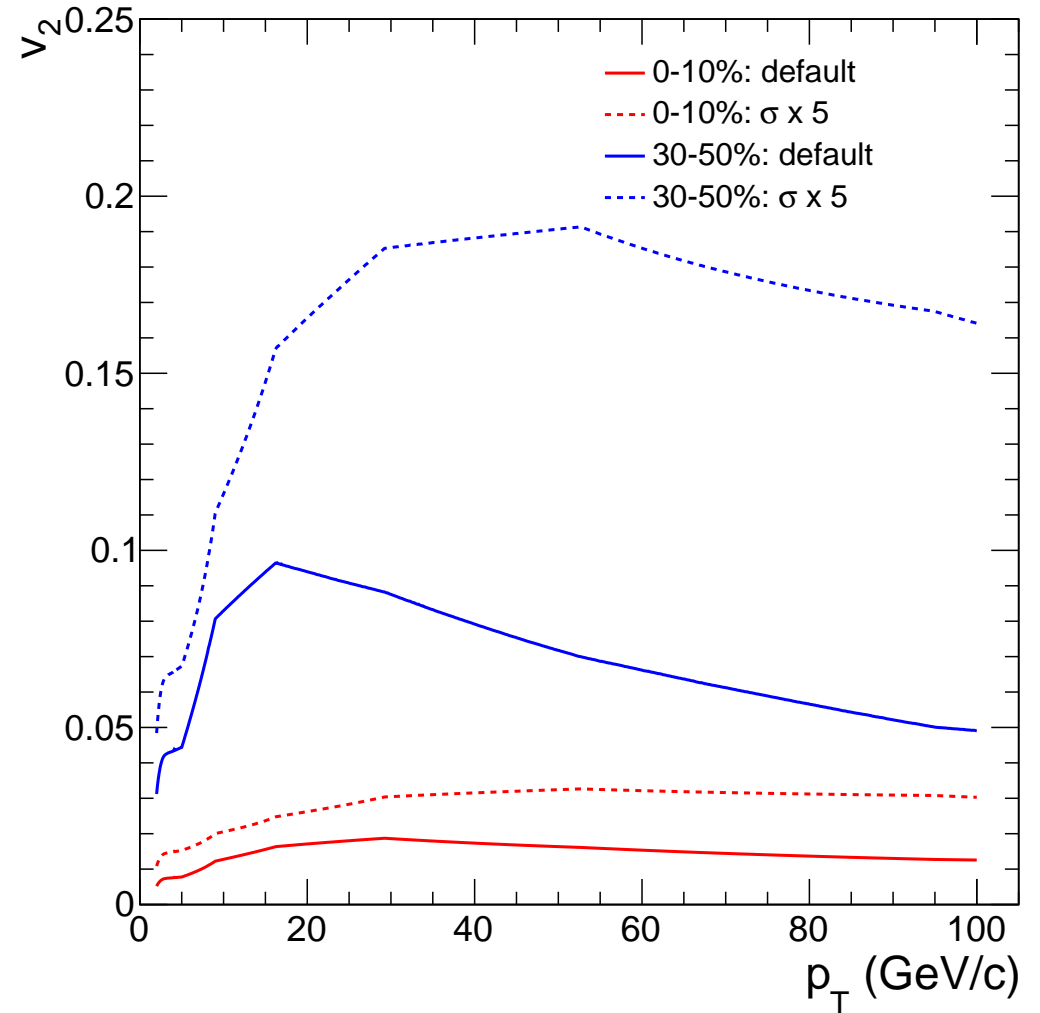
2

EMMI RRTF - HQ transport coefficients

Vitev: charm quark in 2.76 TeV Pb-Pb collisions



Vitev: charm quark in 2.76 TeV Pb-Pb collisions

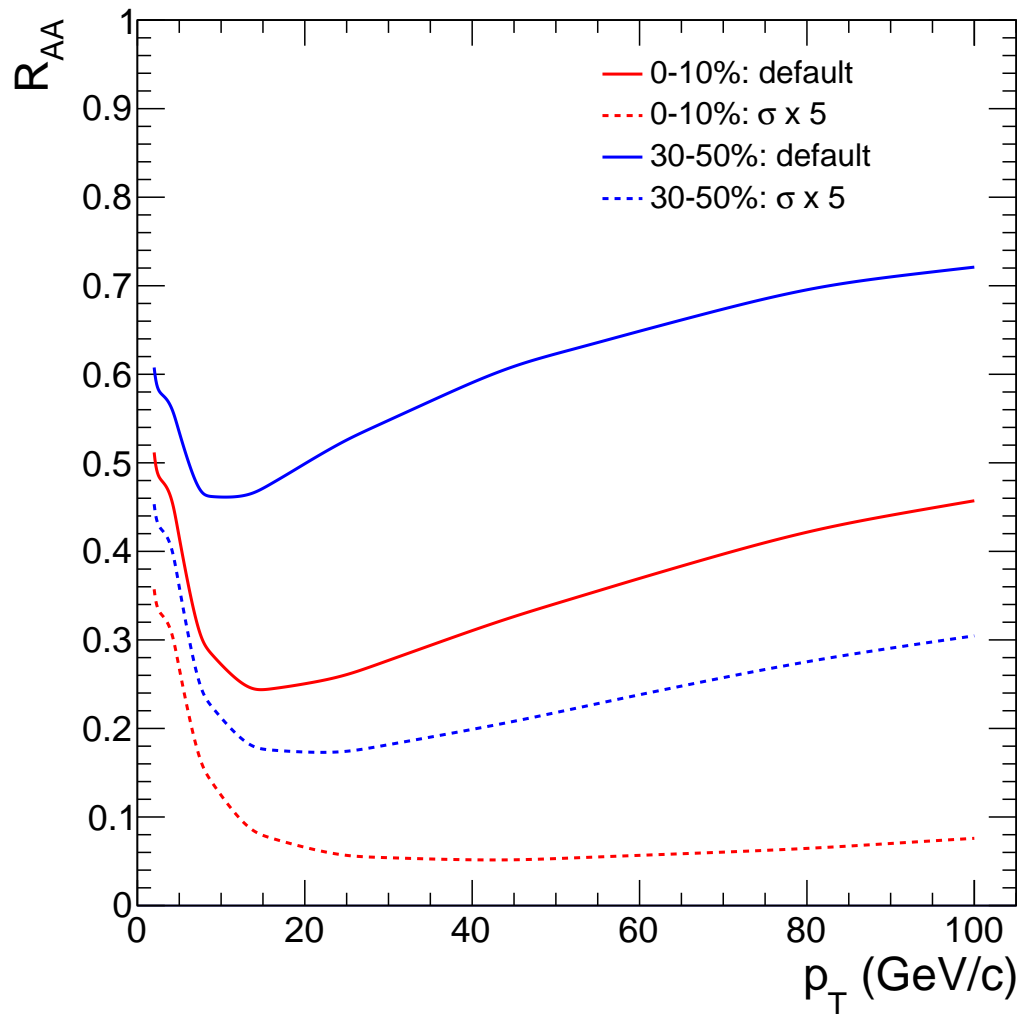


Vitev - D mesons

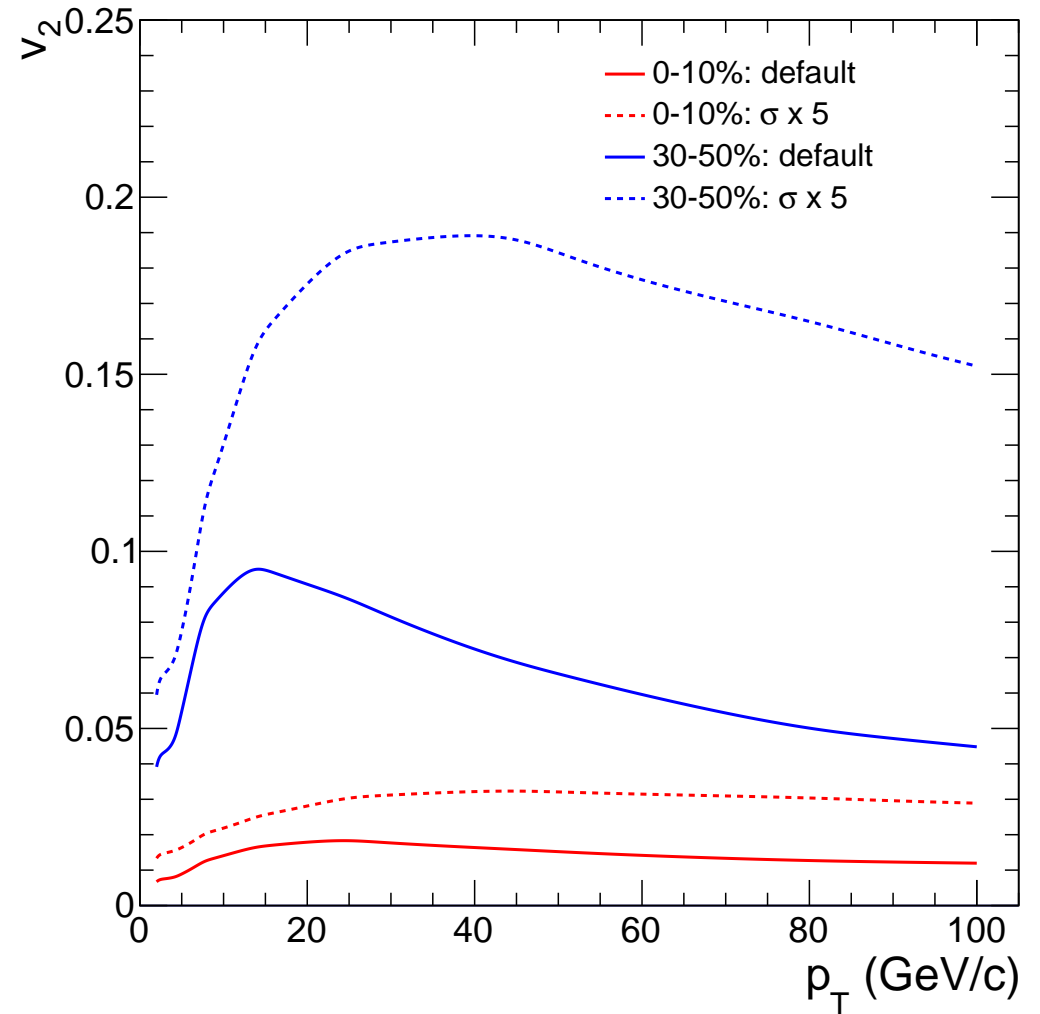
3

EMMI RRTF - HQ transport coefficients

Vitev: D mesons in 2.76 TeV Pb-Pb collisions



Vitev: D mesons in 2.76 TeV Pb-Pb collisions

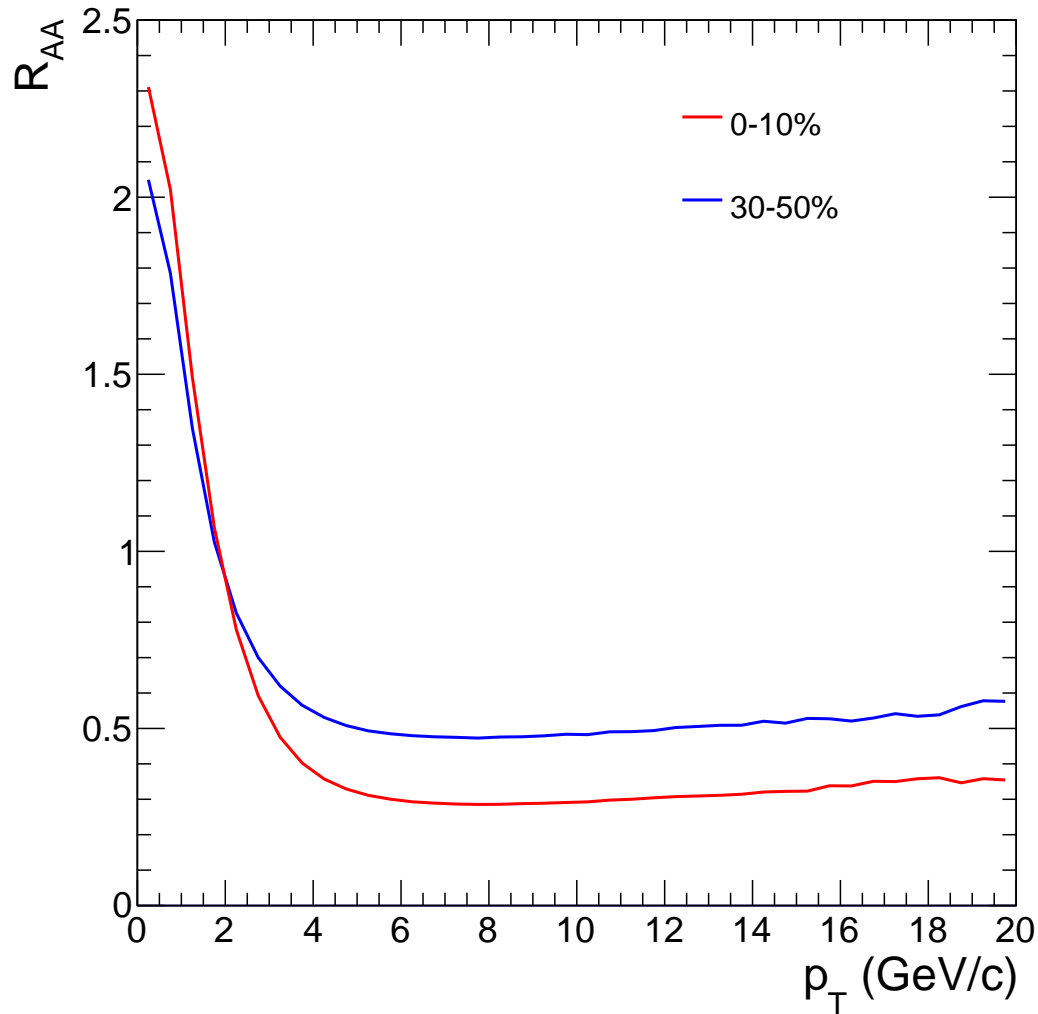


UrQMD - charm quarks

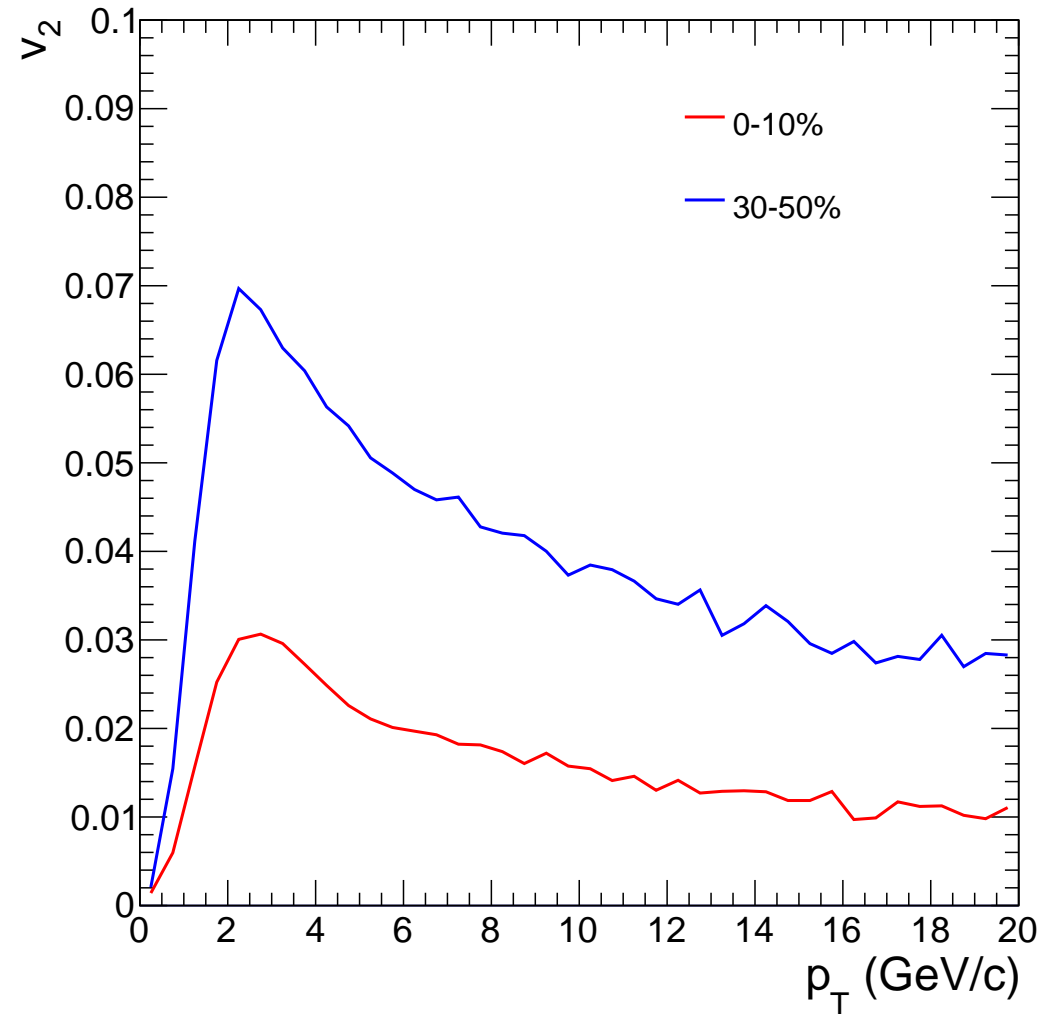
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EMMI RRTF - HQ transport coefficients

UrQMD: charm quark in 2.76 TeV Pb-Pb collisions



UrQMD: charm quark in 2.76 TeV Pb-Pb collisions

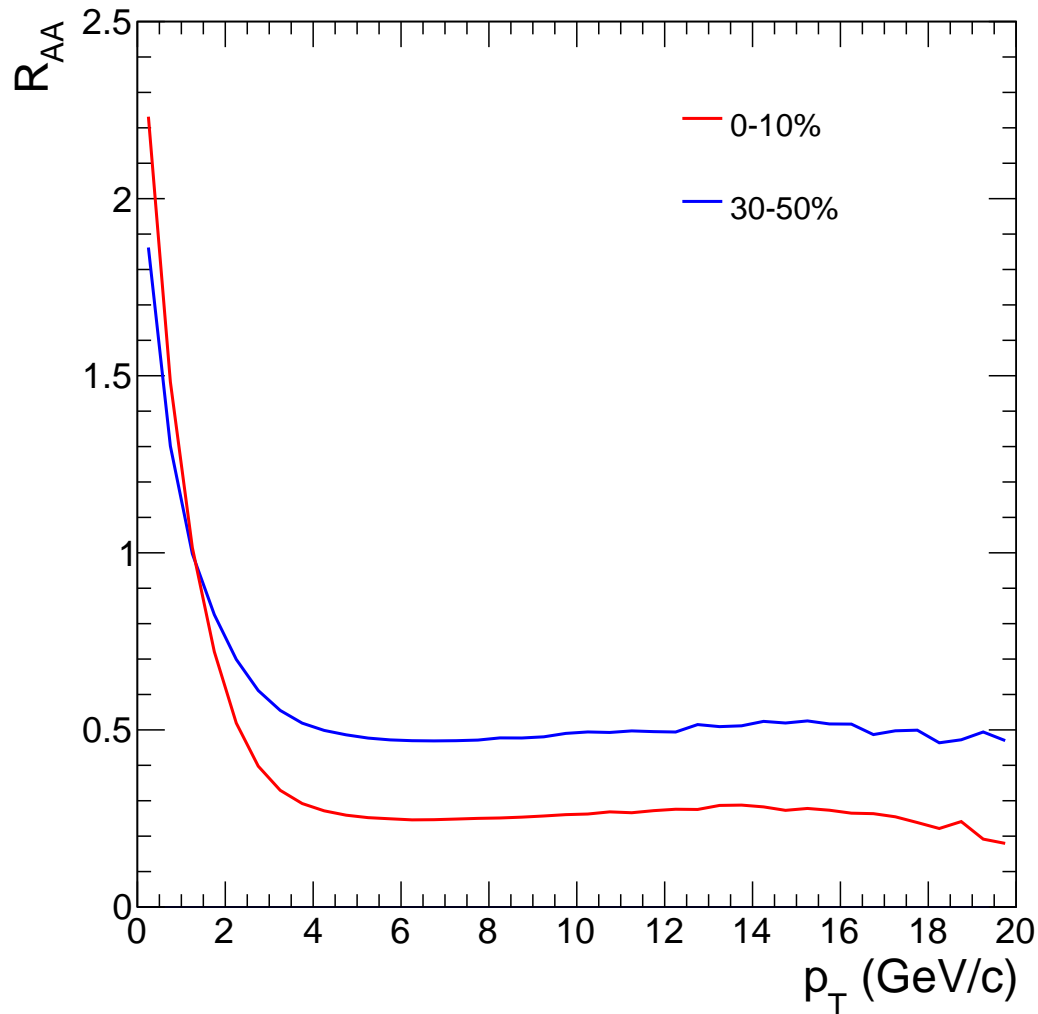


UrQMD - D mesons

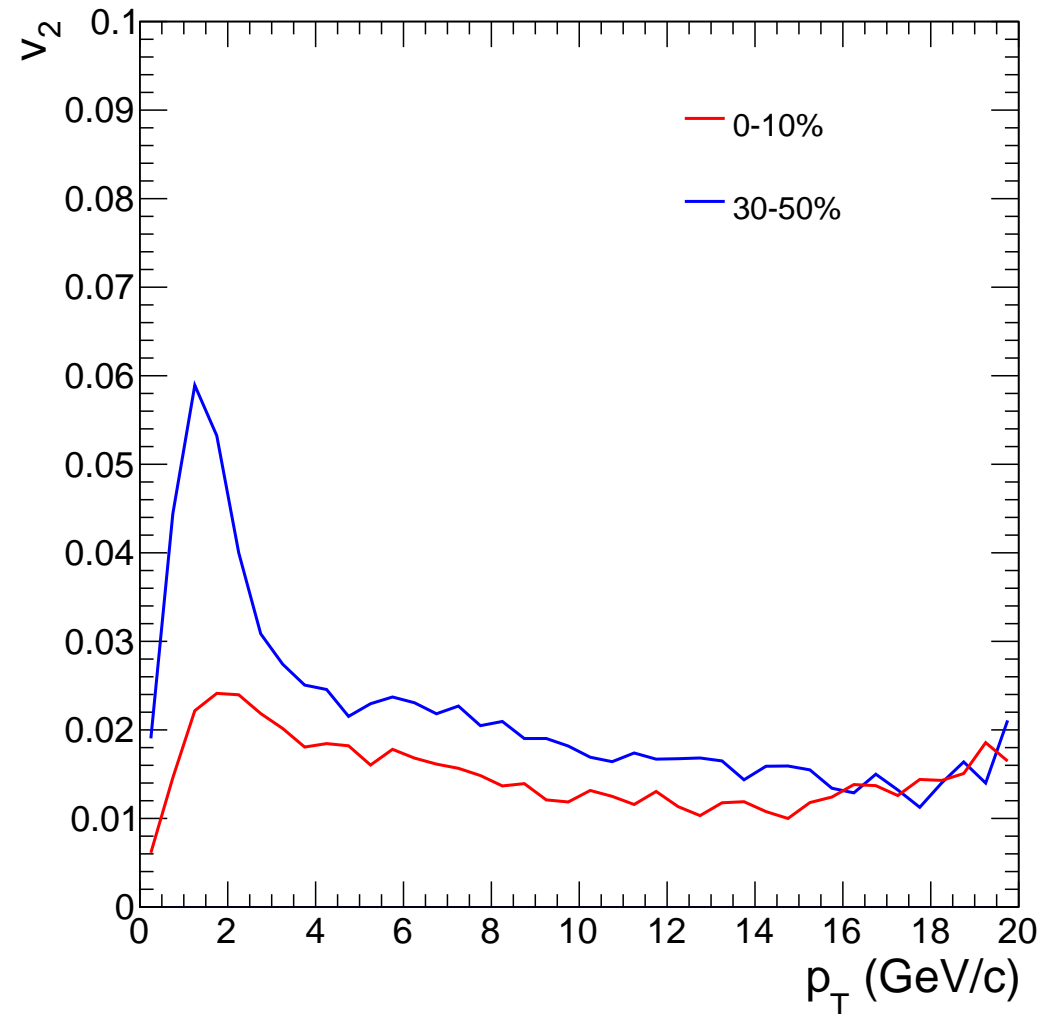
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EMMI RRTF - HQ transport coefficients

UrQMD: D meson in 2.76 TeV Pb-Pb collisions



UrQMD: D meson in 2.76 TeV Pb-Pb collisions

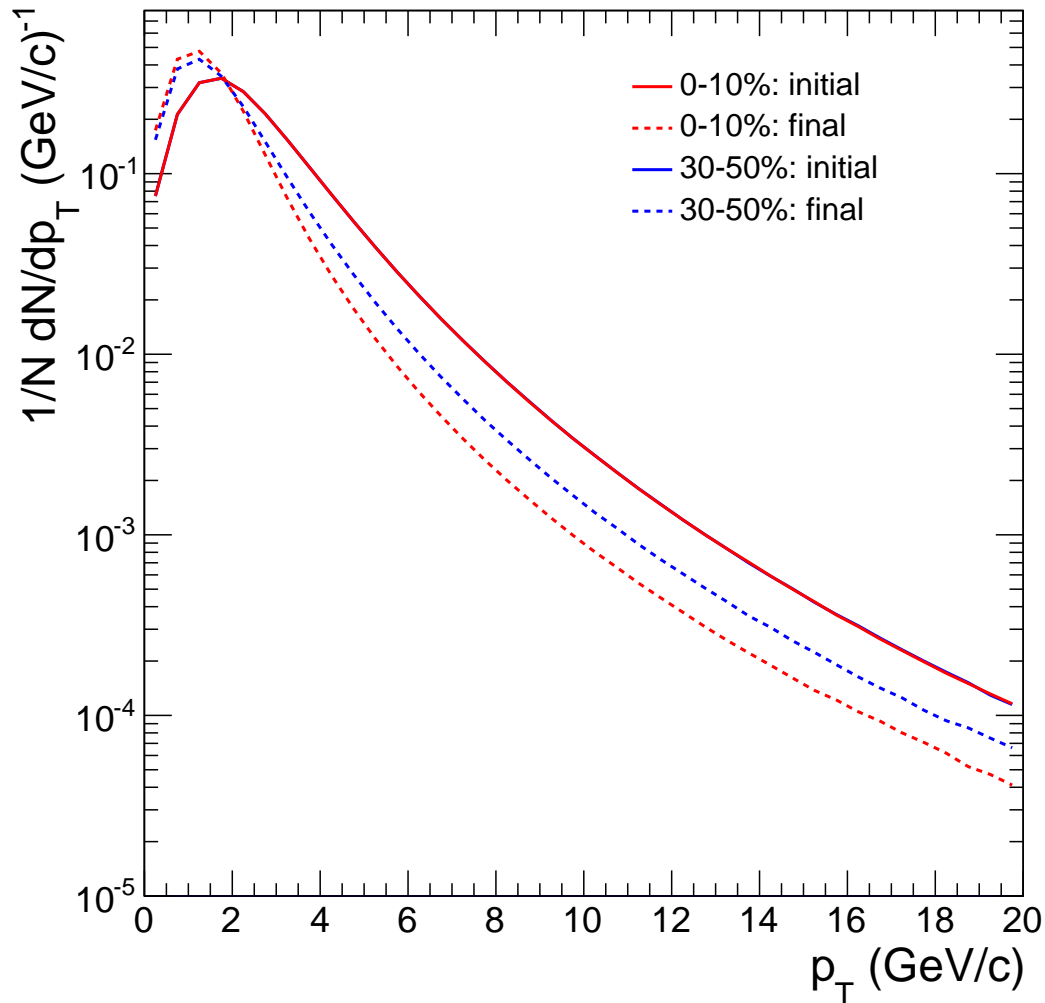


UrQMD - Spectra

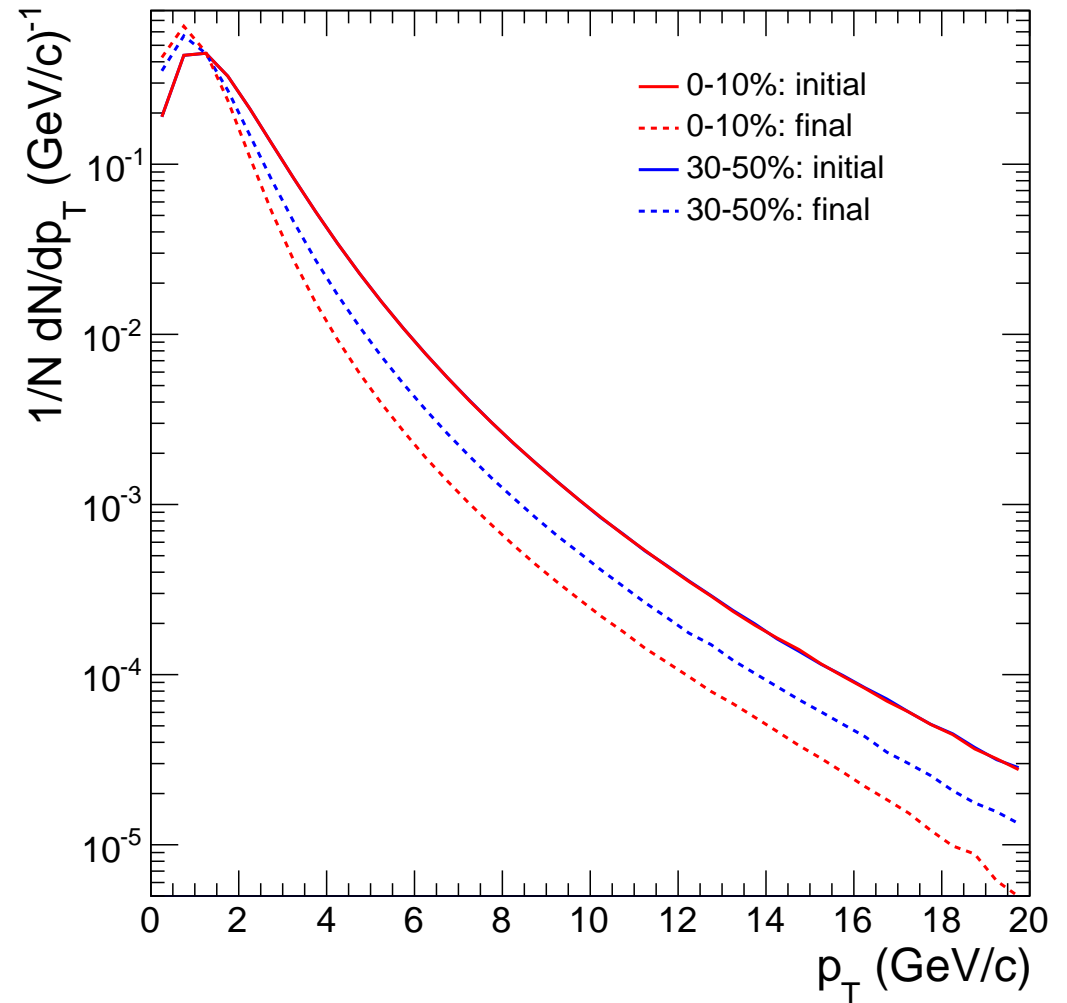
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EMMI RRTF - HQ transport coefficients

UrQMD: charm quark in 2.76 TeV Pb-Pb collisions



UrQMD: D meson in 2.76 TeV Pb-Pb collisions

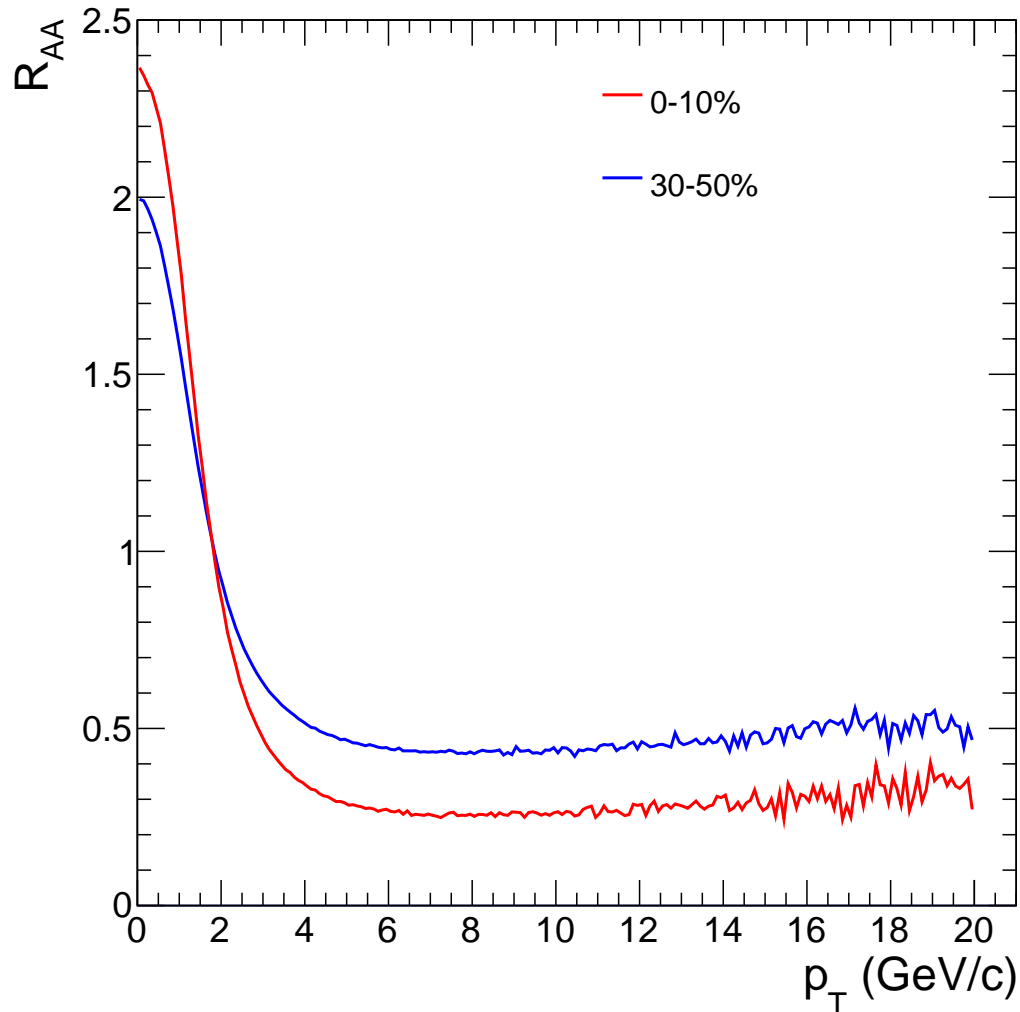


TAMU - charm quarks

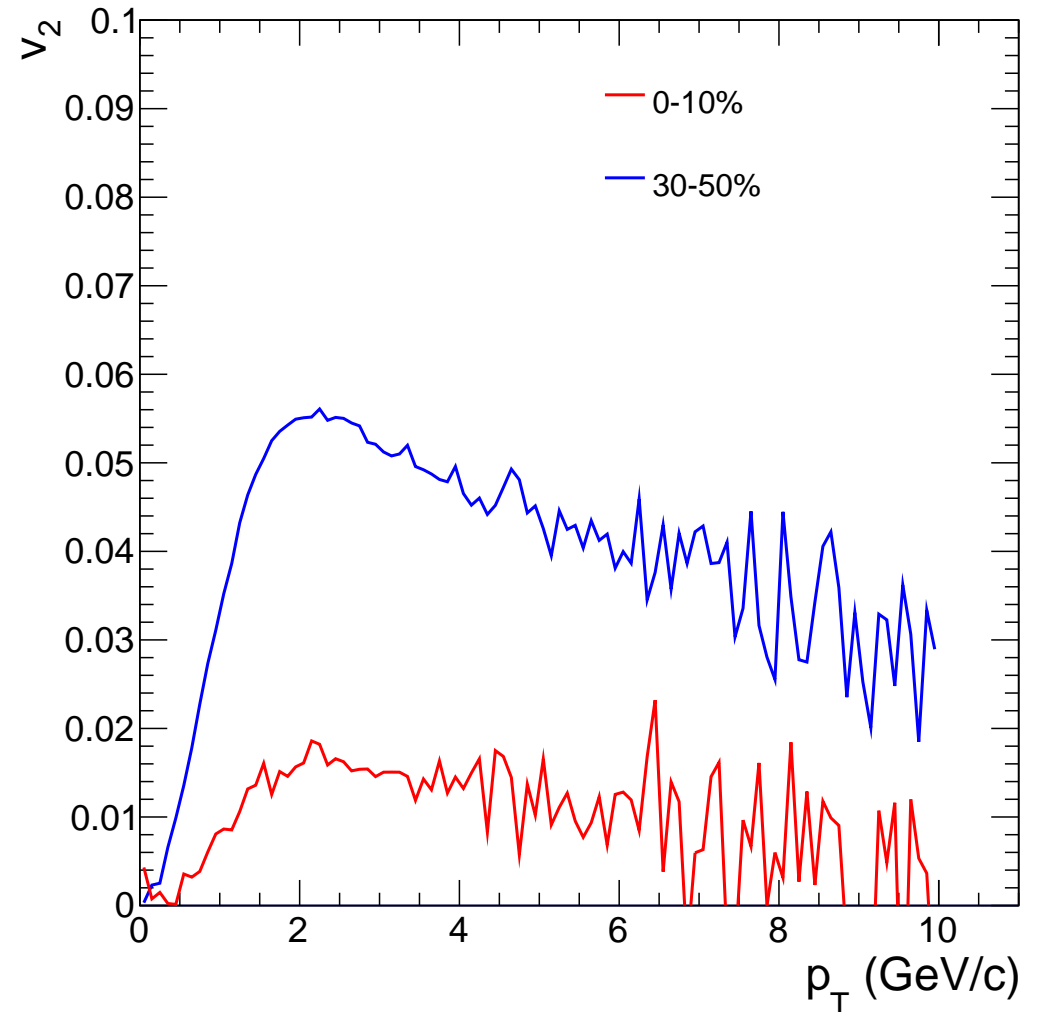
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EMMI RRTF - HQ transport coefficients

TAMU: charm quark in 2.76 TeV Pb-Pb collisions



TAMU: charm quark in 2.76 TeV Pb-Pb collisions

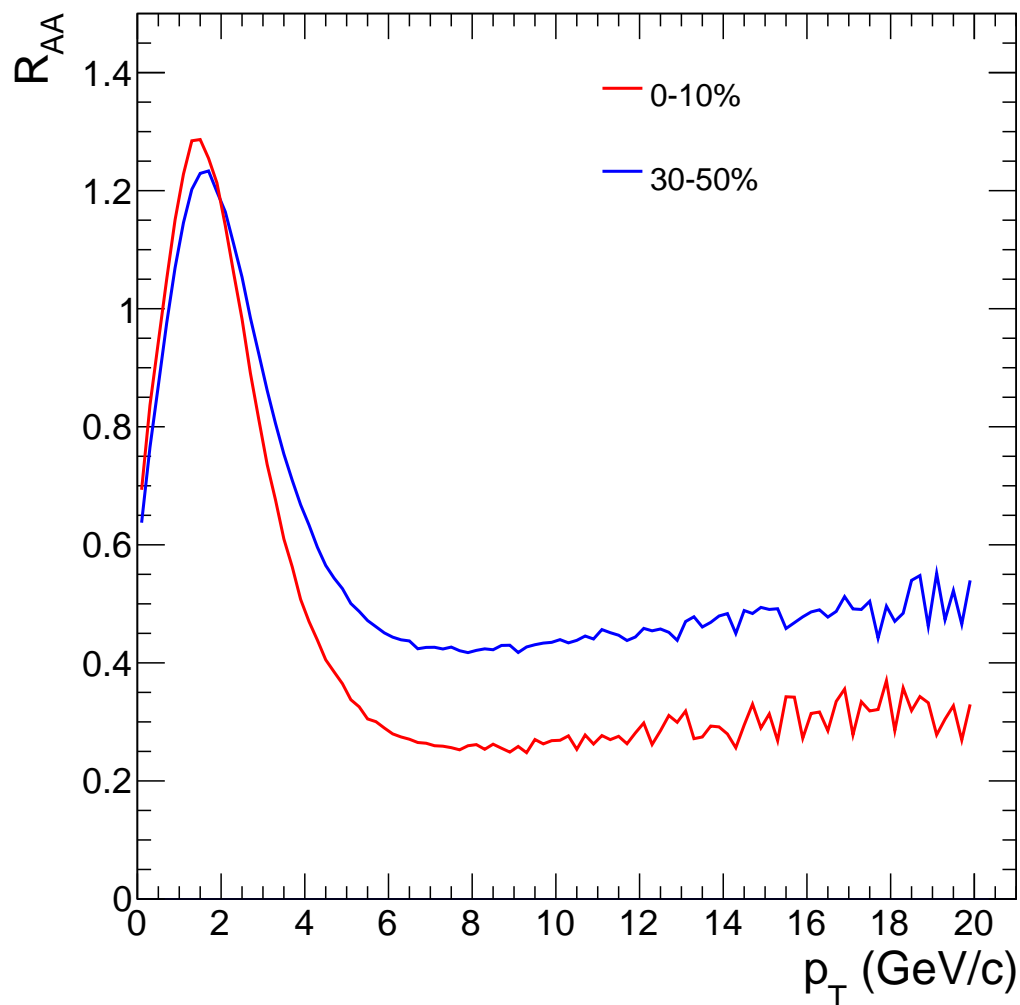


TAMU - D mesons

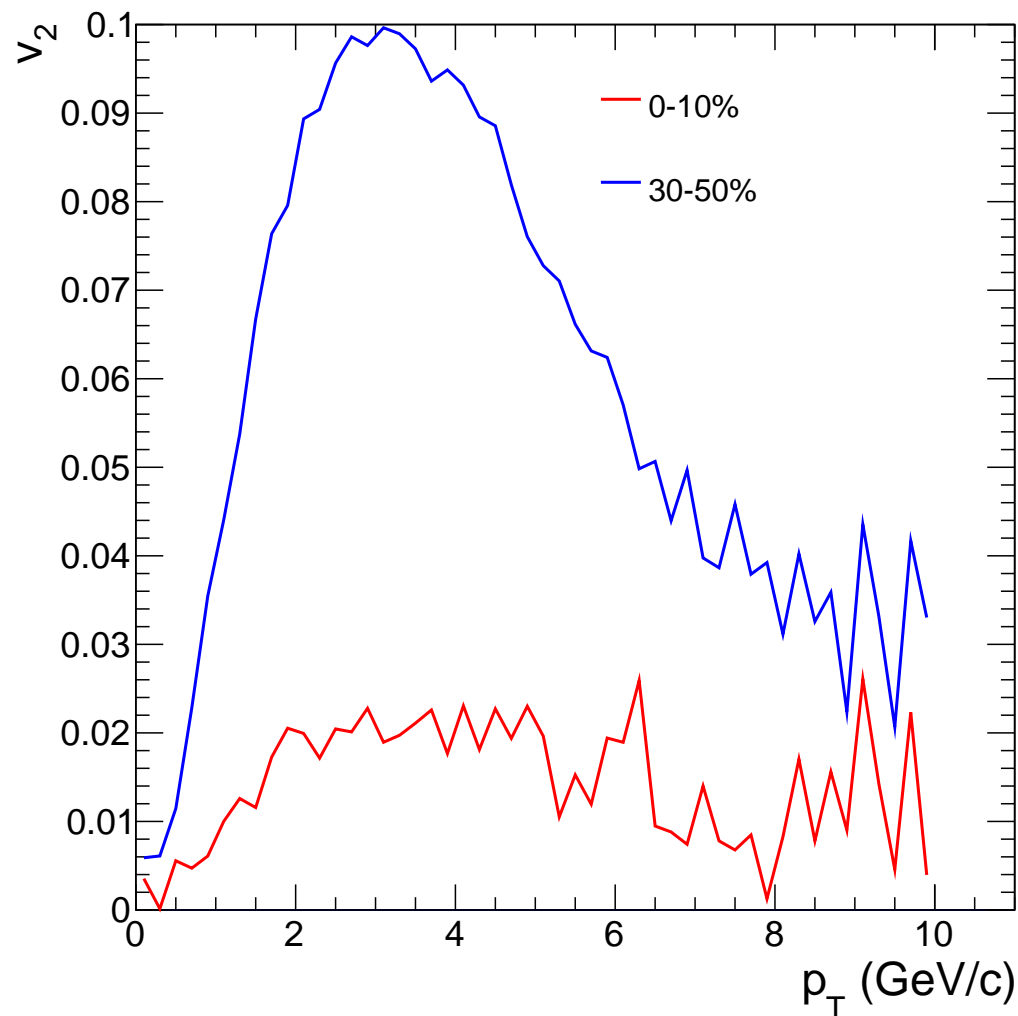
8

EMMI RRTF - HQ transport coefficients

TAMU: D mesons in 2.76 TeV Pb-Pb collisions



TAMU: D meson in 2.76 TeV Pb-Pb collisions

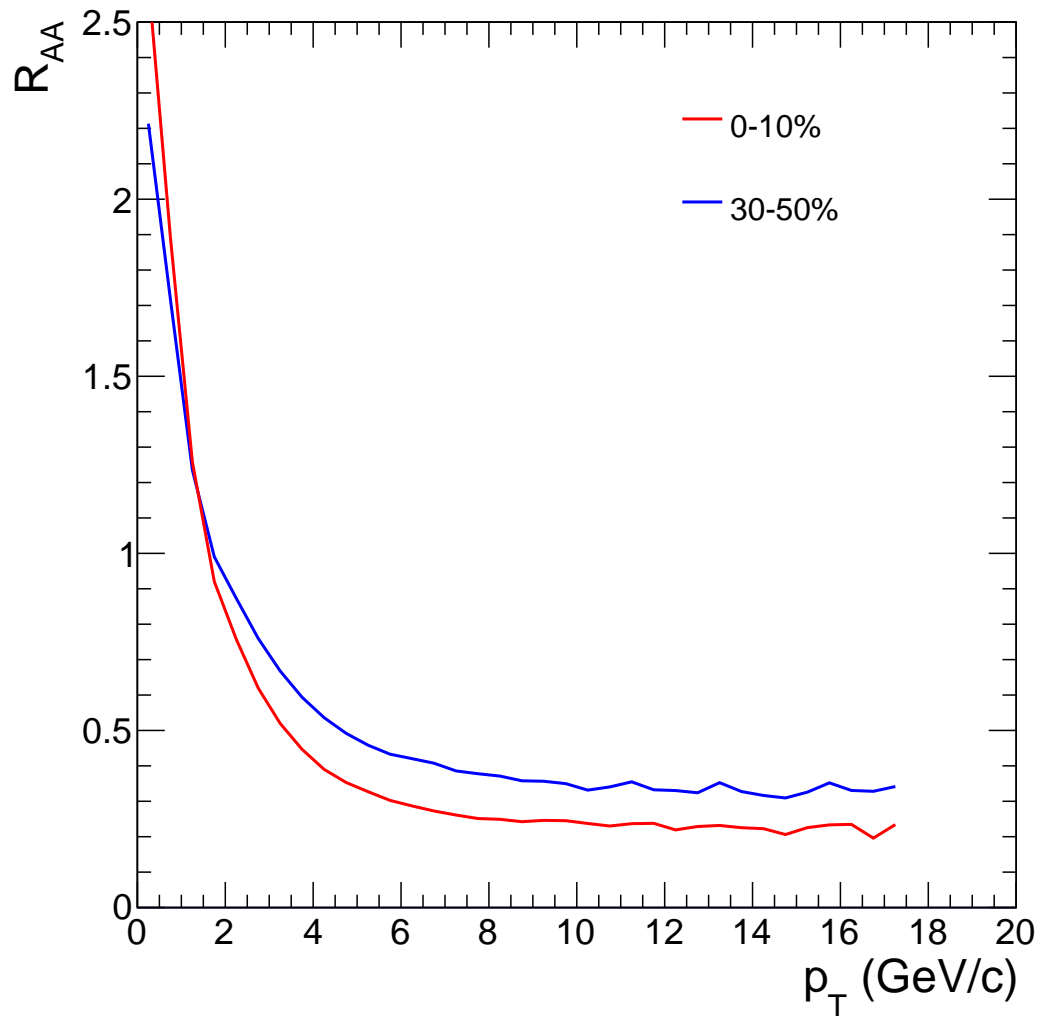


Catania - charm quarks

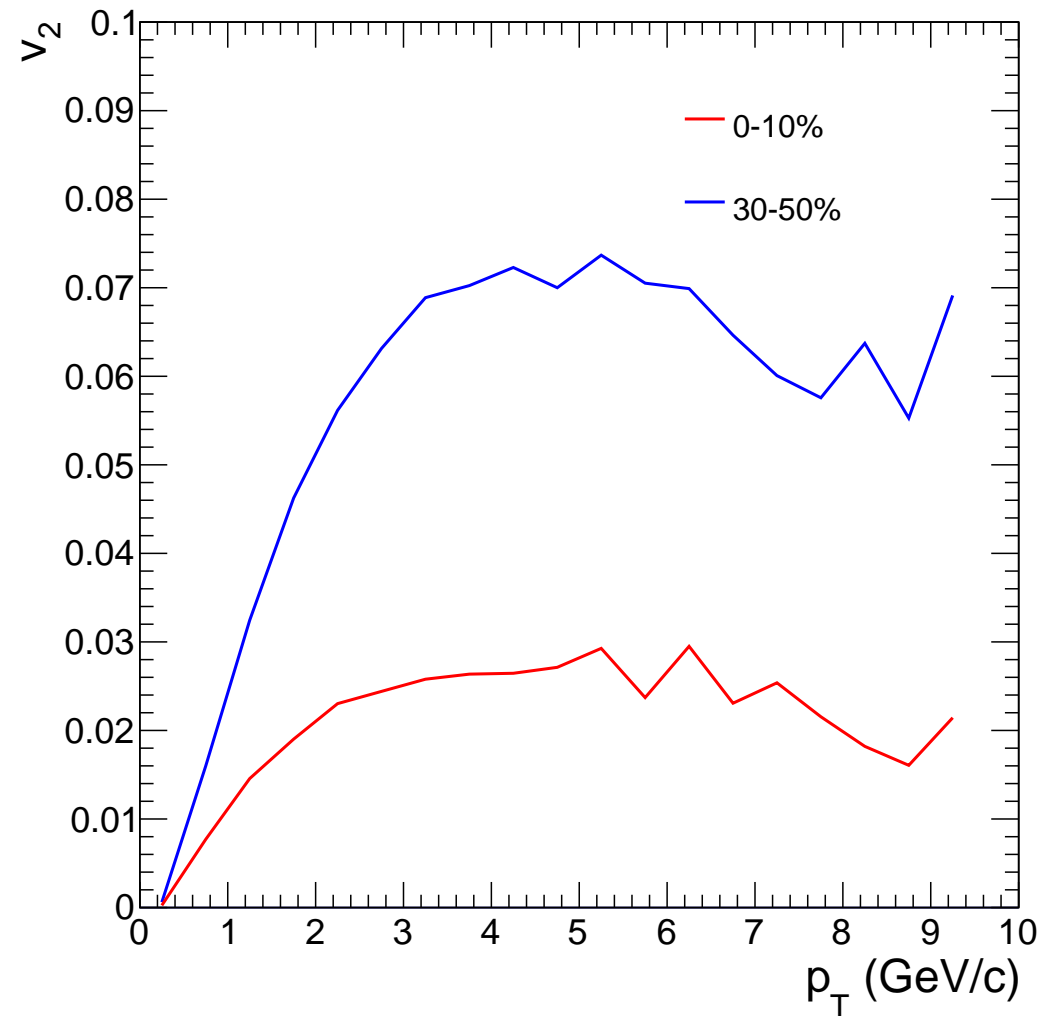
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EMMI RRTF - HQ transport coefficients

Catania: charm quark in 2.76 TeV Pb-Pb collisions



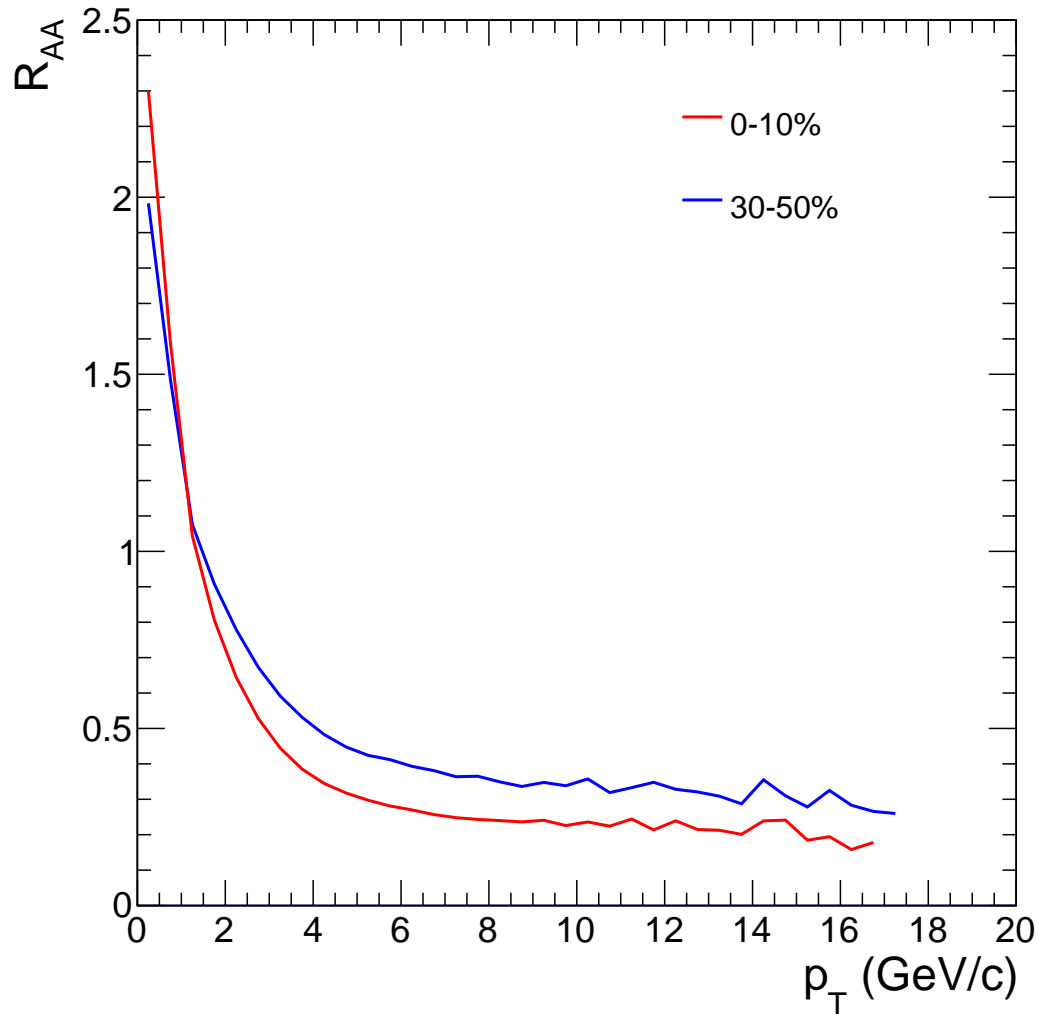
Catania: charm quark in 2.76 TeV Pb-Pb collisions



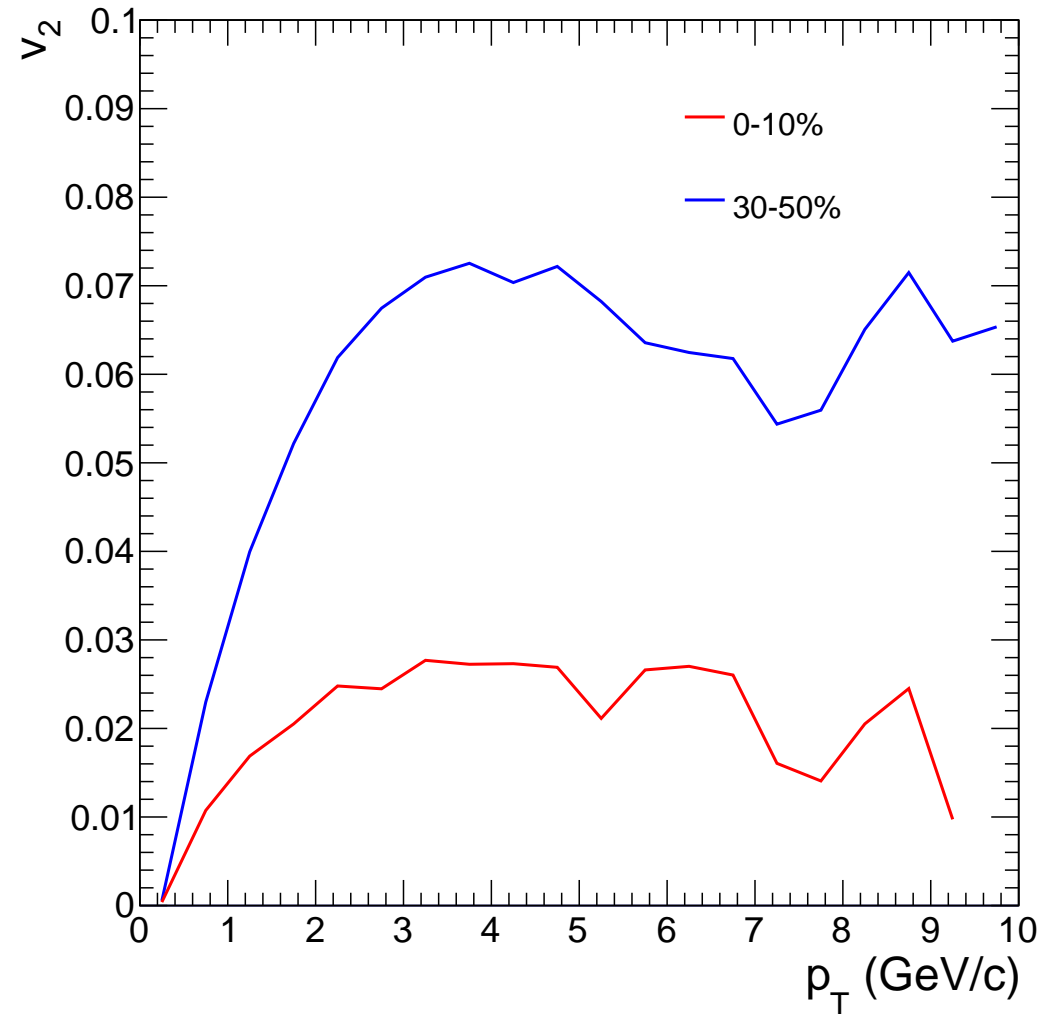
Catania - D mesons

10 EMMI RRTF - HQ transport coefficients

Catania: D meson in 2.76 TeV Pb-Pb collisions



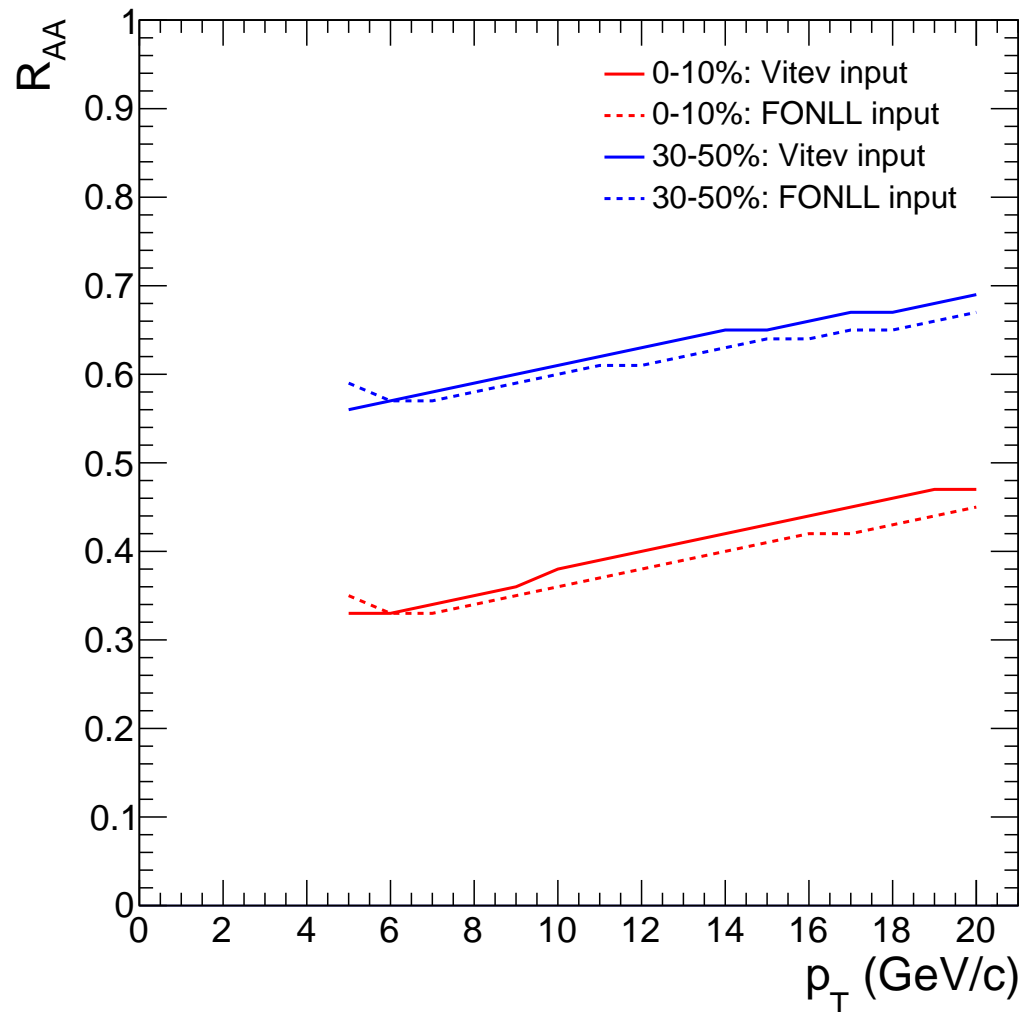
Catania: D meson in 2.76 TeV Pb-Pb collisions



Djordjevic - D mesons

11 EMMI RRTF - HQ transport coefficients

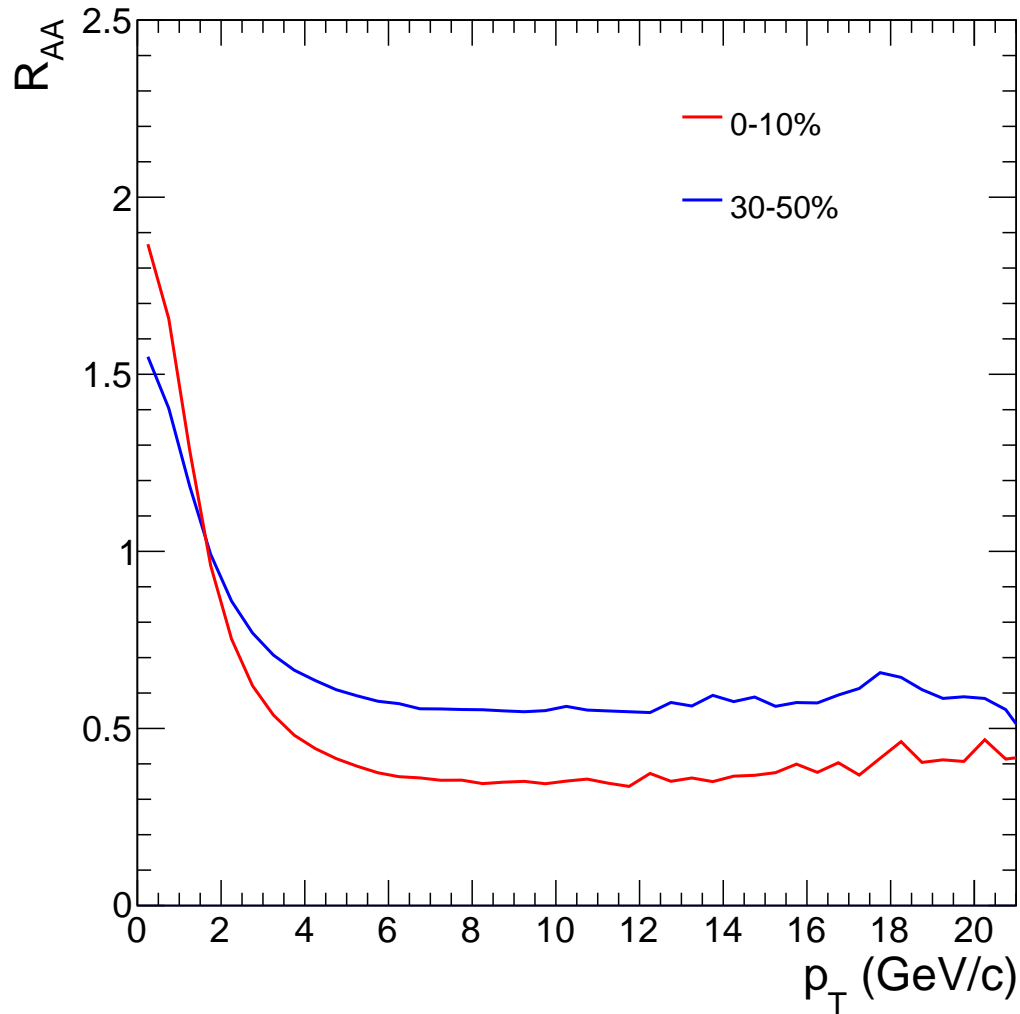
Djordjevic: D mesons in 2.76 TeV Pb-Pb collisions



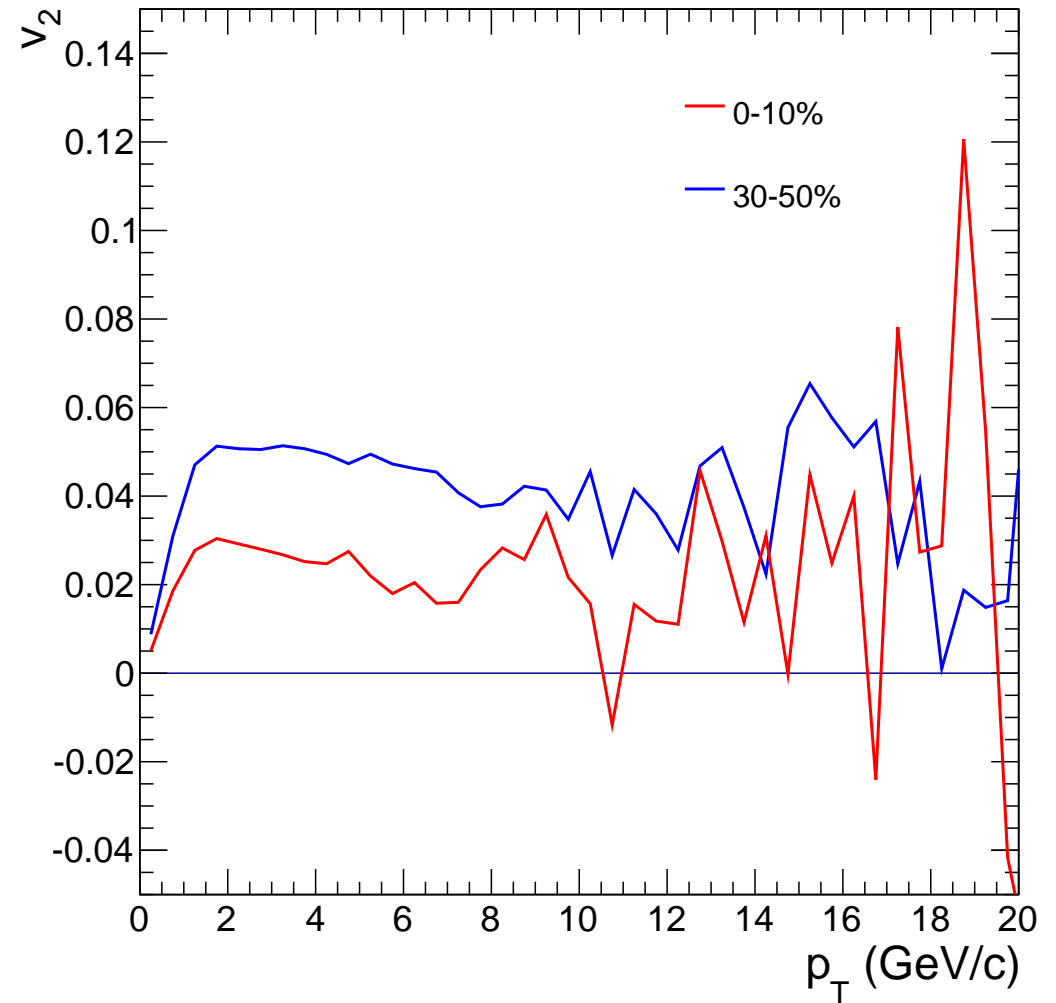
Nantes - charm quarks

12 EMMI RRTF - HQ transport coefficients

Nantes: charm quark in 2.76 TeV Pb-Pb collisions



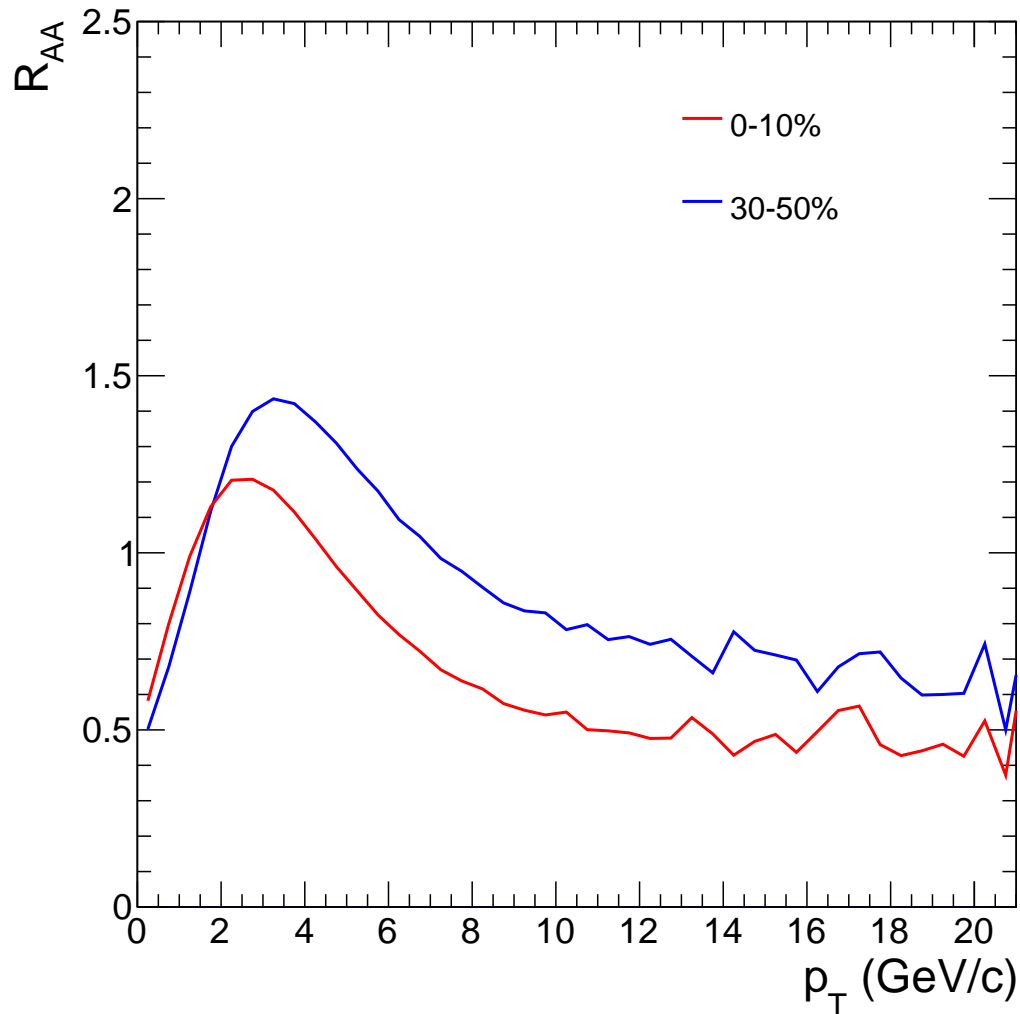
Nantes: charm quark in 2.76 TeV Pb-Pb collisions



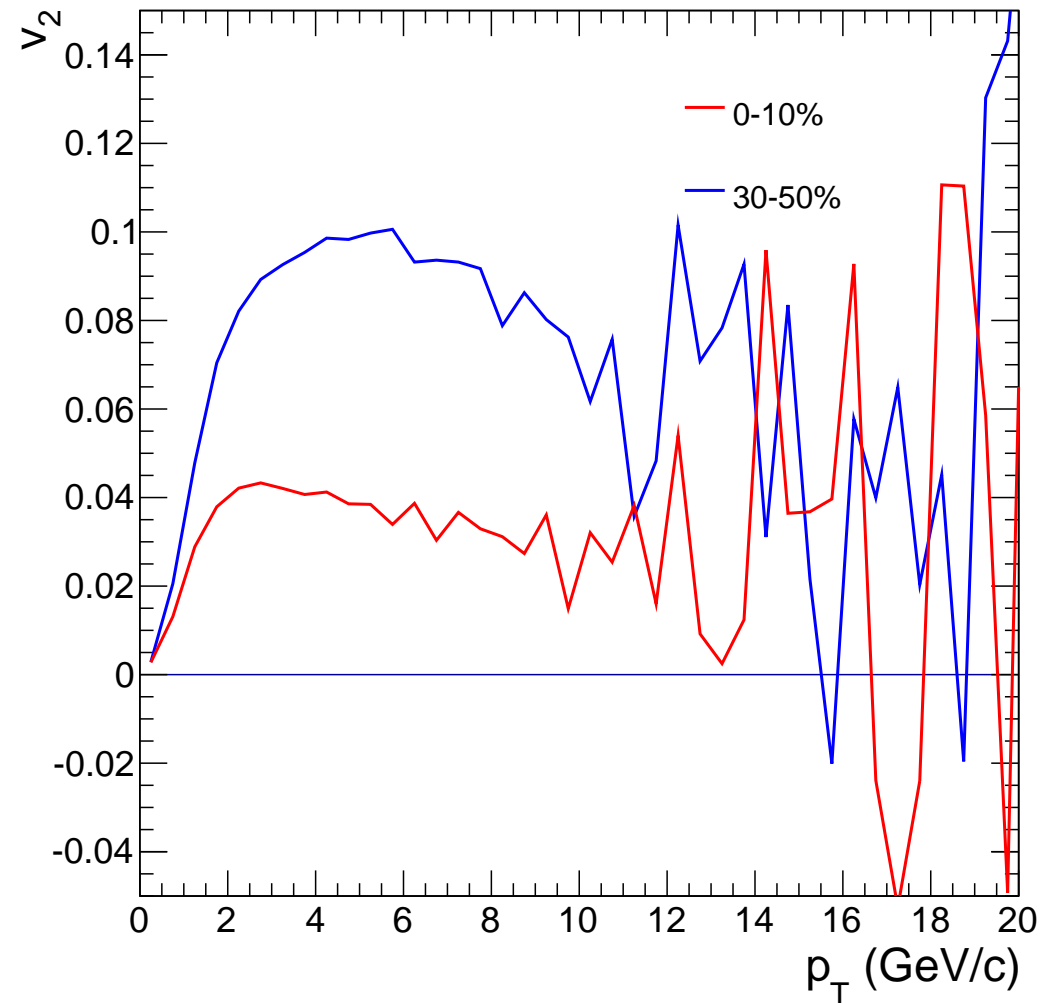
Nantes - D mesons

13 EMMI RRTF - HQ transport coefficients

Nantes: D meson in 2.76 TeV Pb-Pb collisions



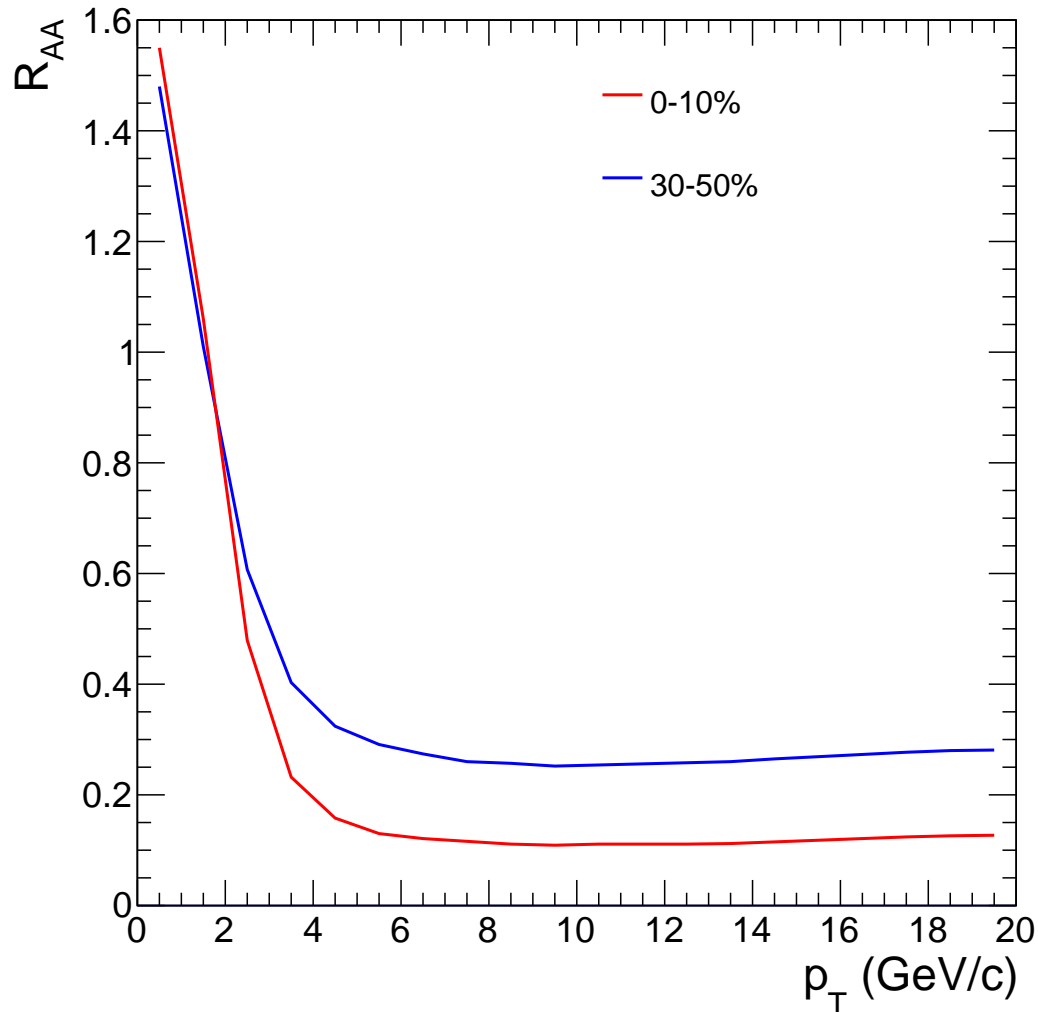
Nantes: D meson in 2.76 TeV Pb-Pb collisions



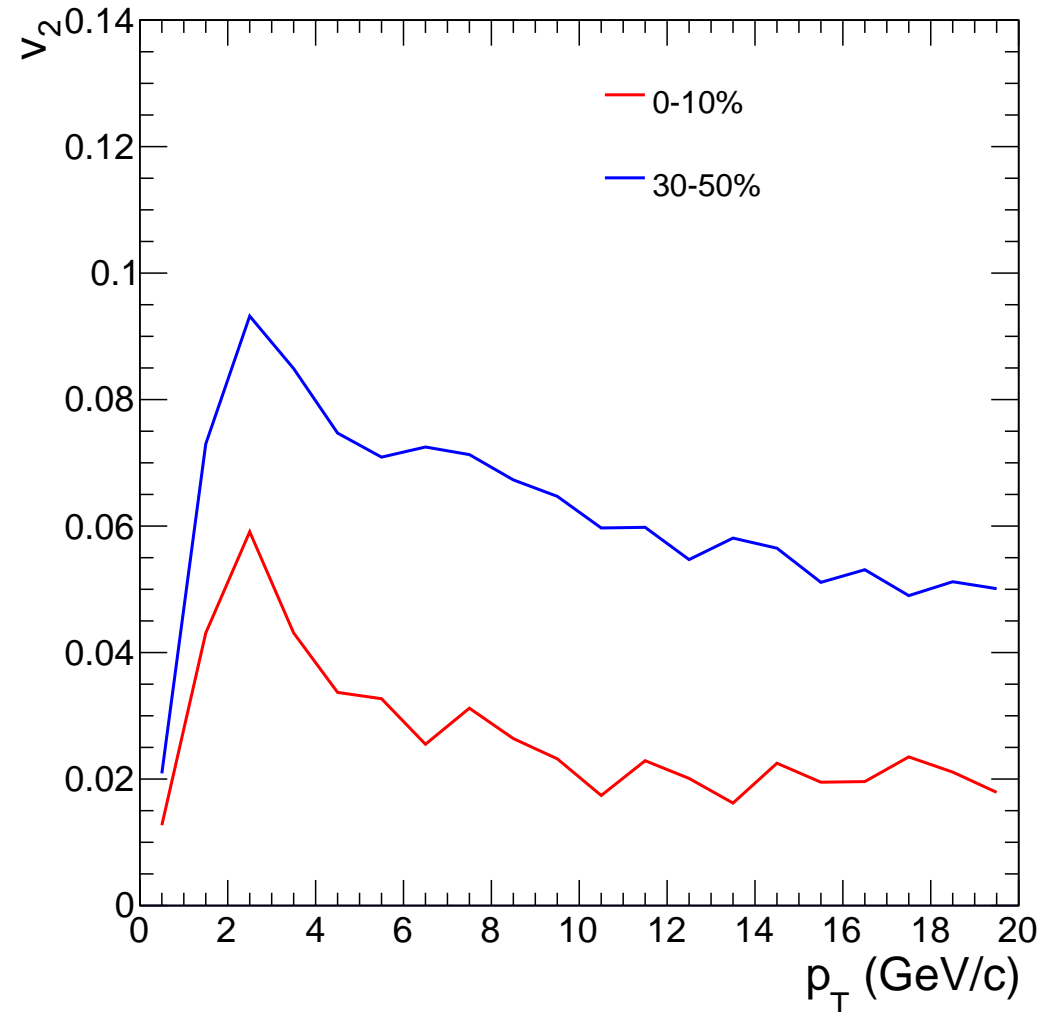
LBL-CCNU - charm quarks

14 EMMI RRTF - HQ transport coefficients

LBL: charm quark in 2.76 TeV Pb-Pb collisions



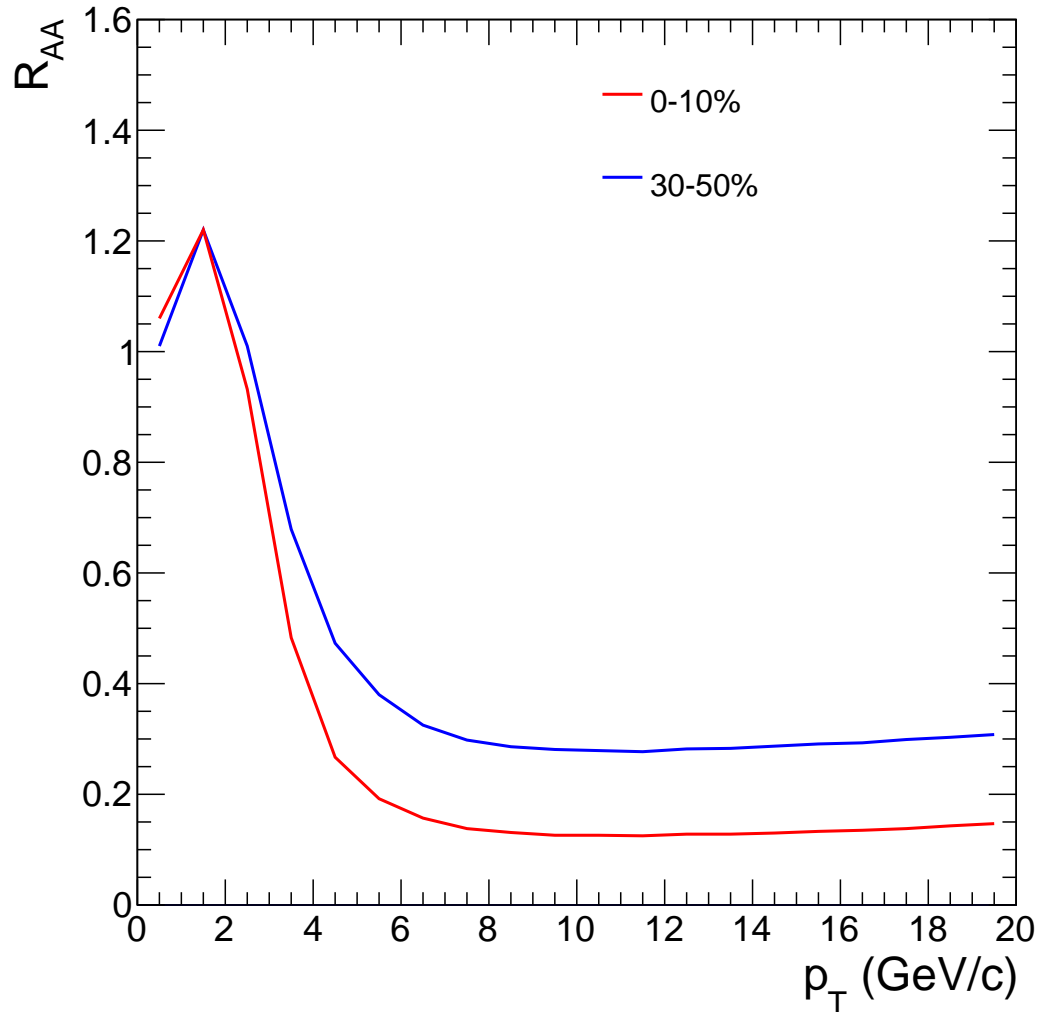
LBL: charm quark in 2.76 TeV Pb-Pb collisions



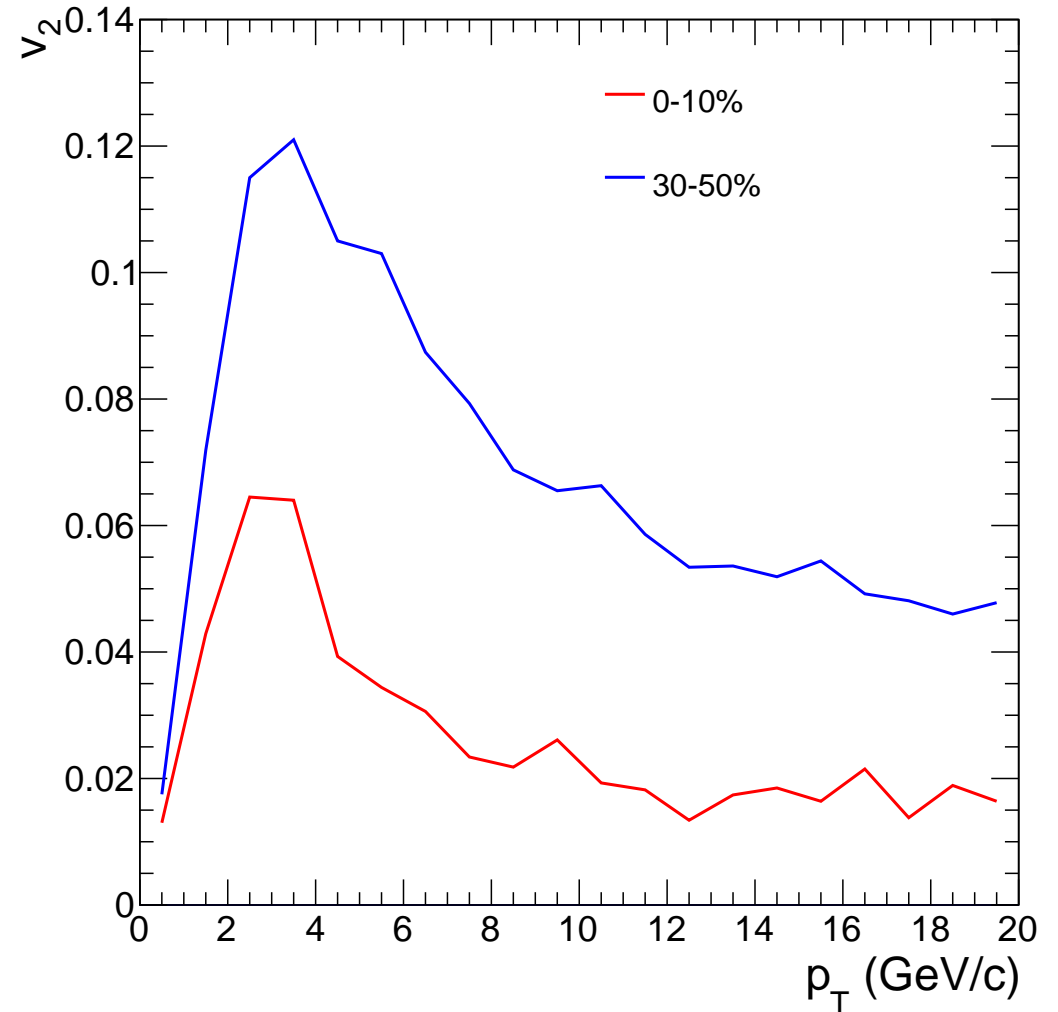
LBL-CCNU - D mesons

15 EMMI RRTF - HQ transport coefficients

LBL: D mesons in 2.76 TeV Pb-Pb collisions



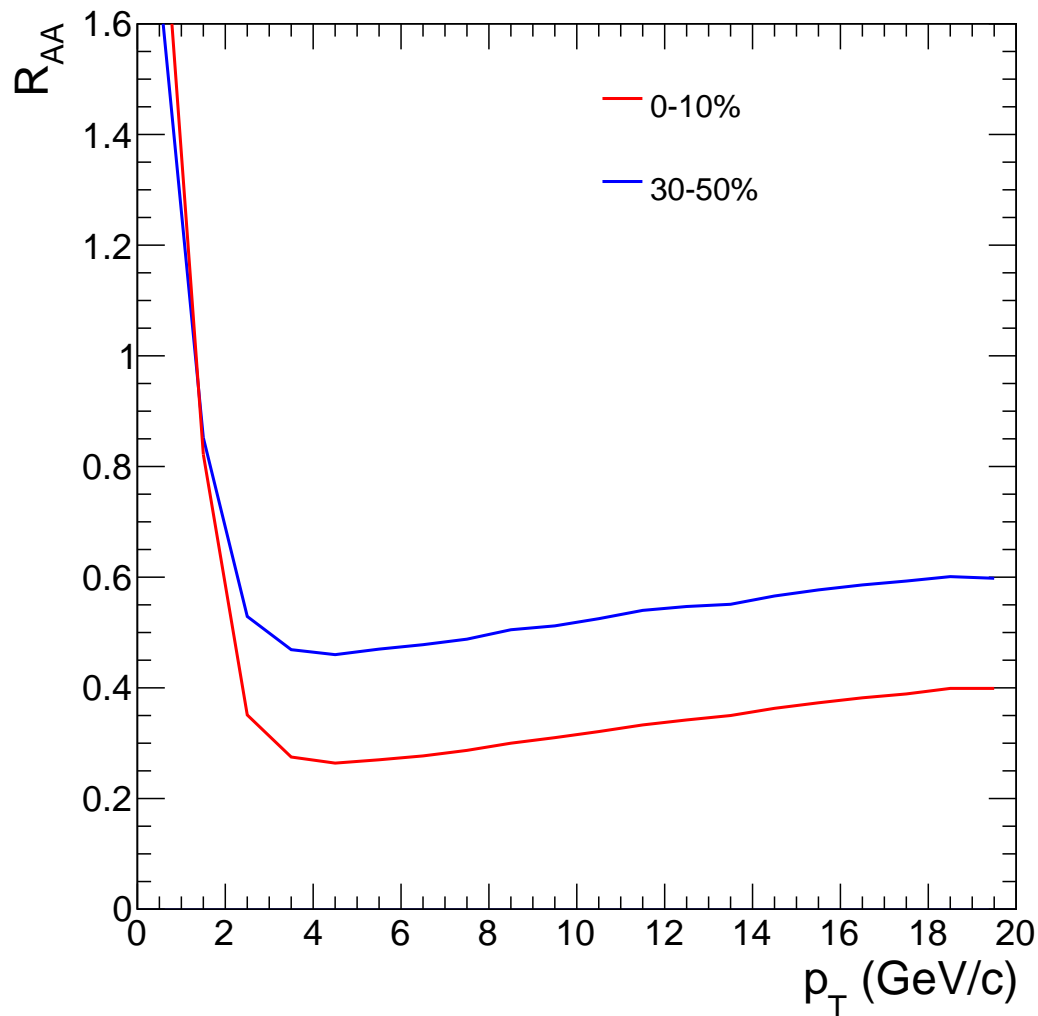
LBL: D meson in 2.76 TeV Pb-Pb collisions



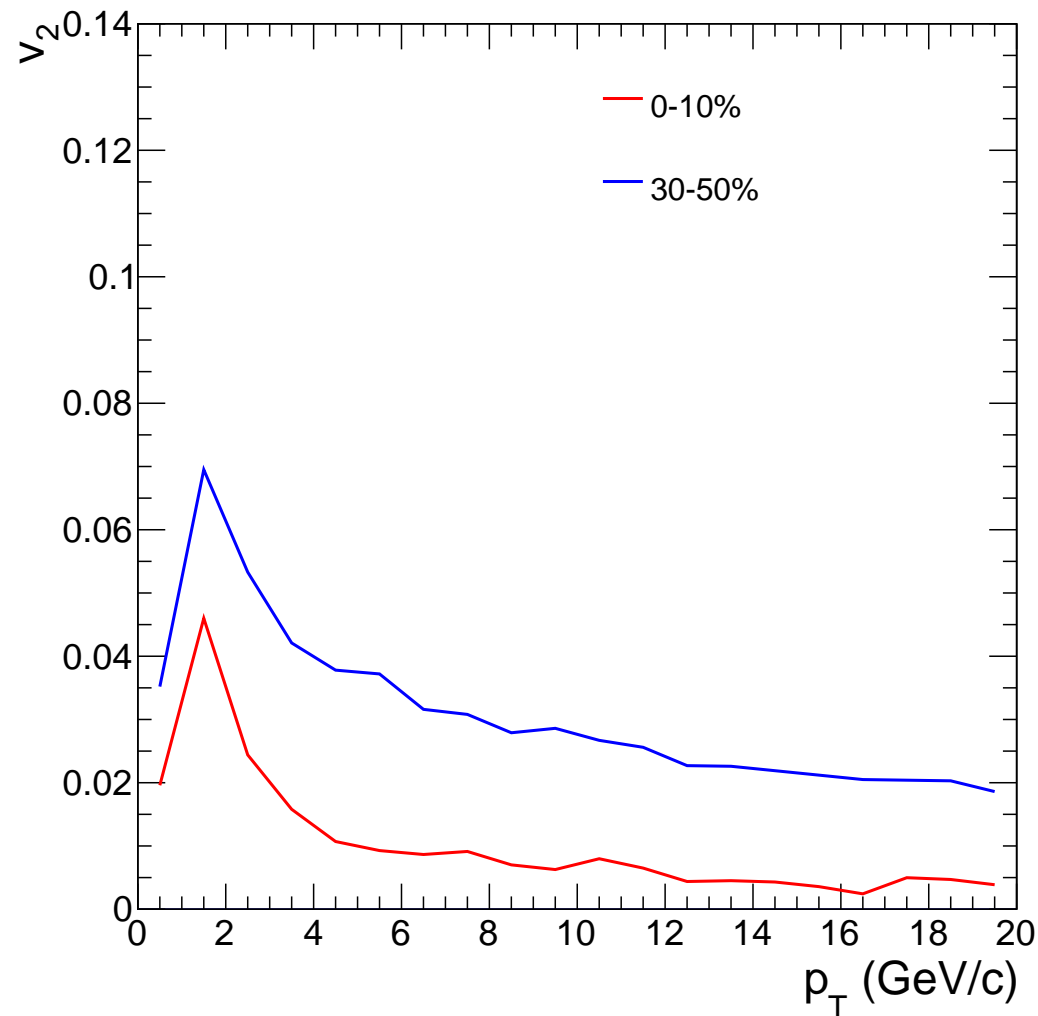
Duke-Langevin (Cao) - charm quarks

16 EMMI RRTF - HQ transport coefficients

Duke-Langevin: charm quark in 2.76 TeV Pb-Pb collisions



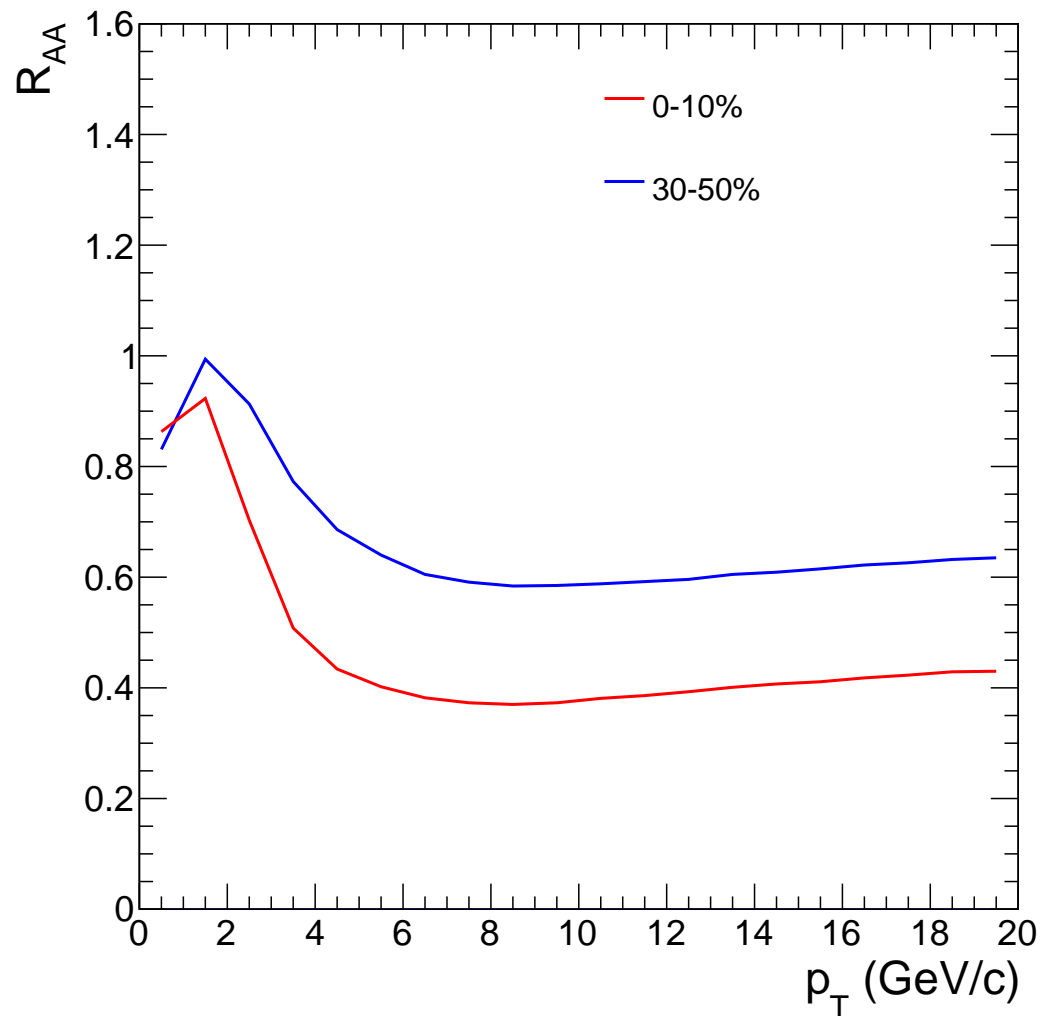
Duke-Langevin: charm quark in 2.76 TeV Pb-Pb collisions



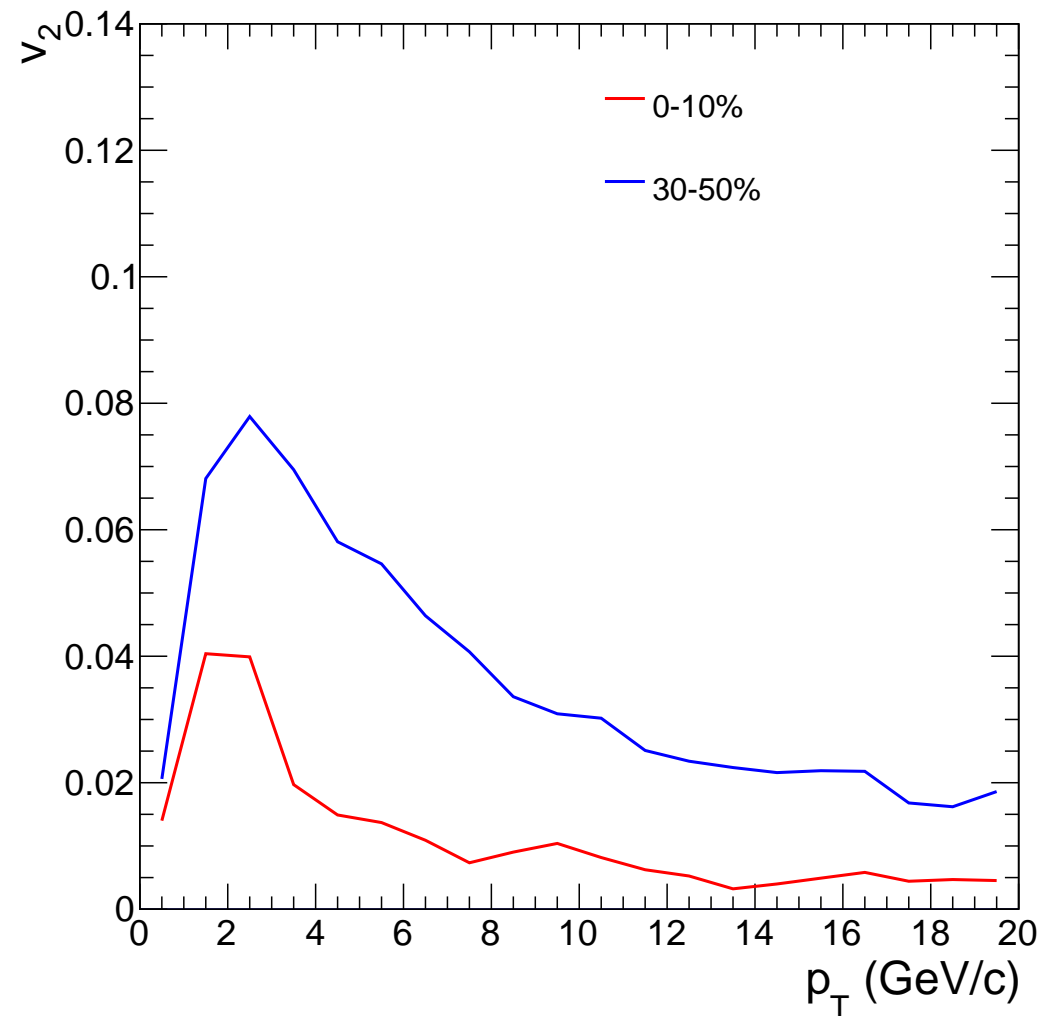
Duke-Langevin (Cao) - D mesons

17 EMMI RRTF - HQ transport coefficients

Duke-Langevin: D mesons in 2.76 TeV Pb-Pb collisions



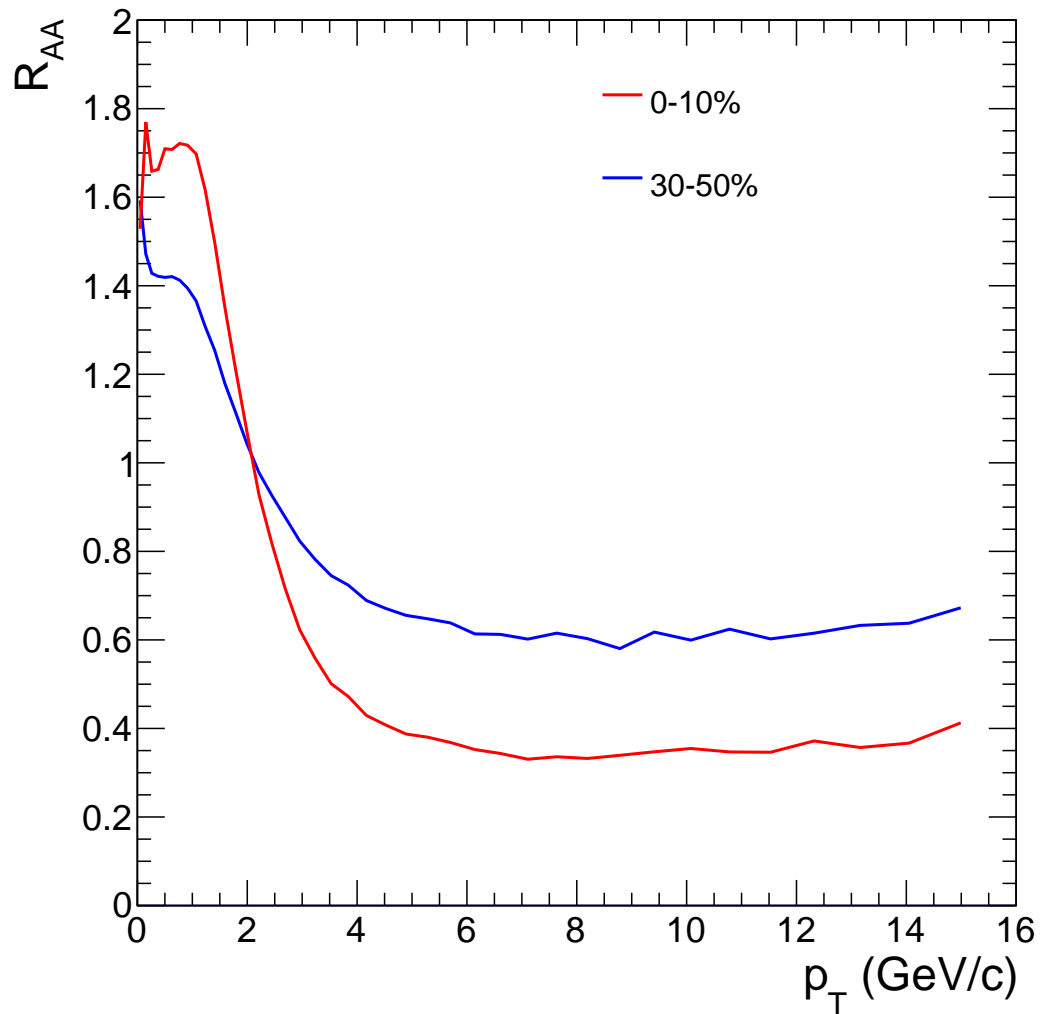
Duke-Langevin: D meson in 2.76 TeV Pb-Pb collisions



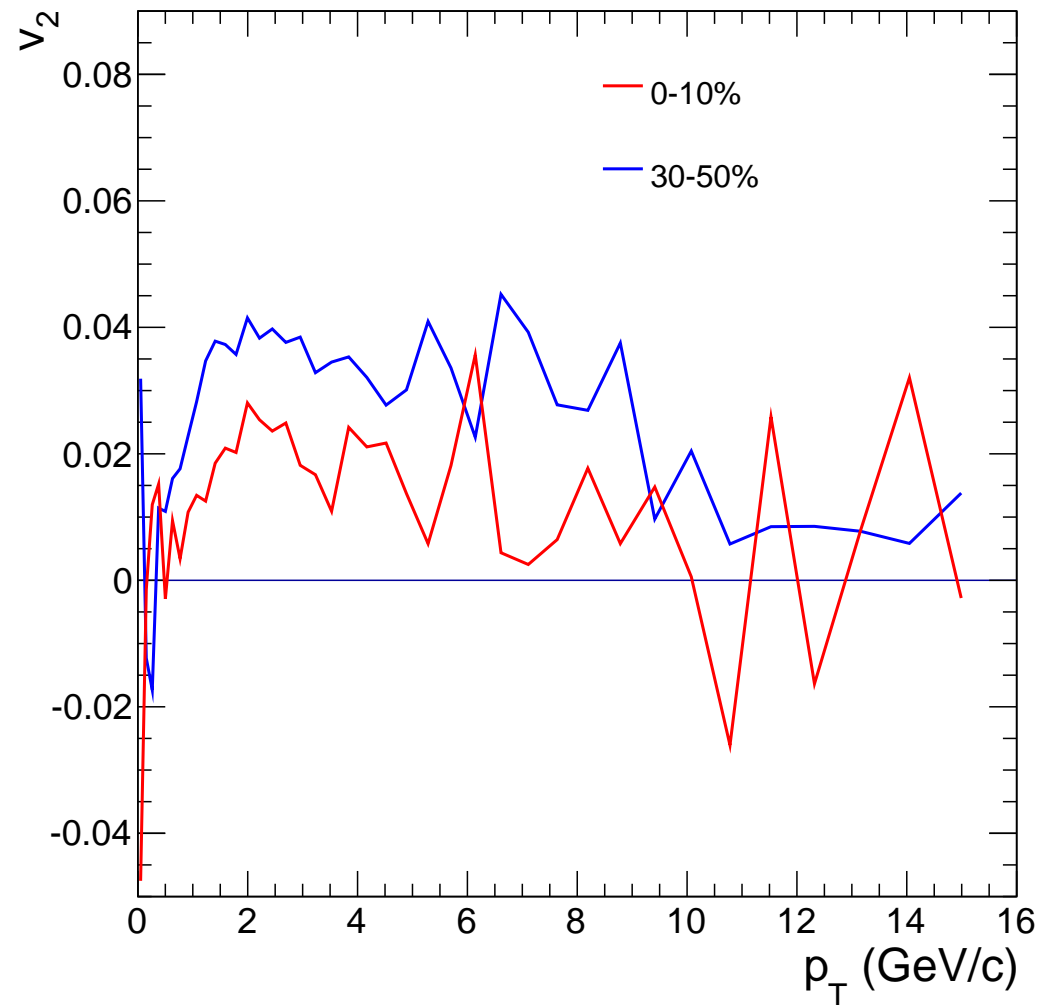
POWLANG - charm quarks

18 EMMI RRTF - HQ transport coefficients

POWLANG: charm quark in 2.76 TeV Pb-Pb collisions



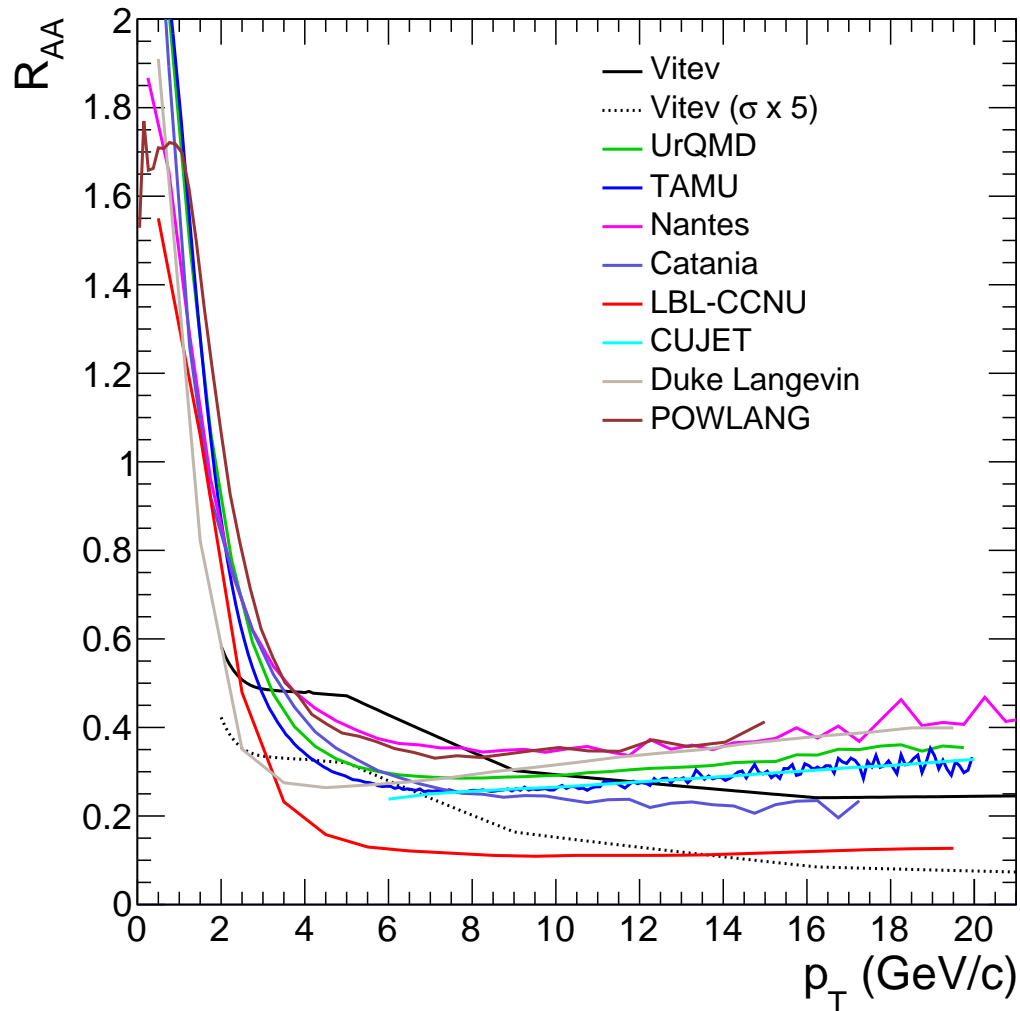
POWLANG: charm quark in 2.76 TeV Pb-Pb collisions



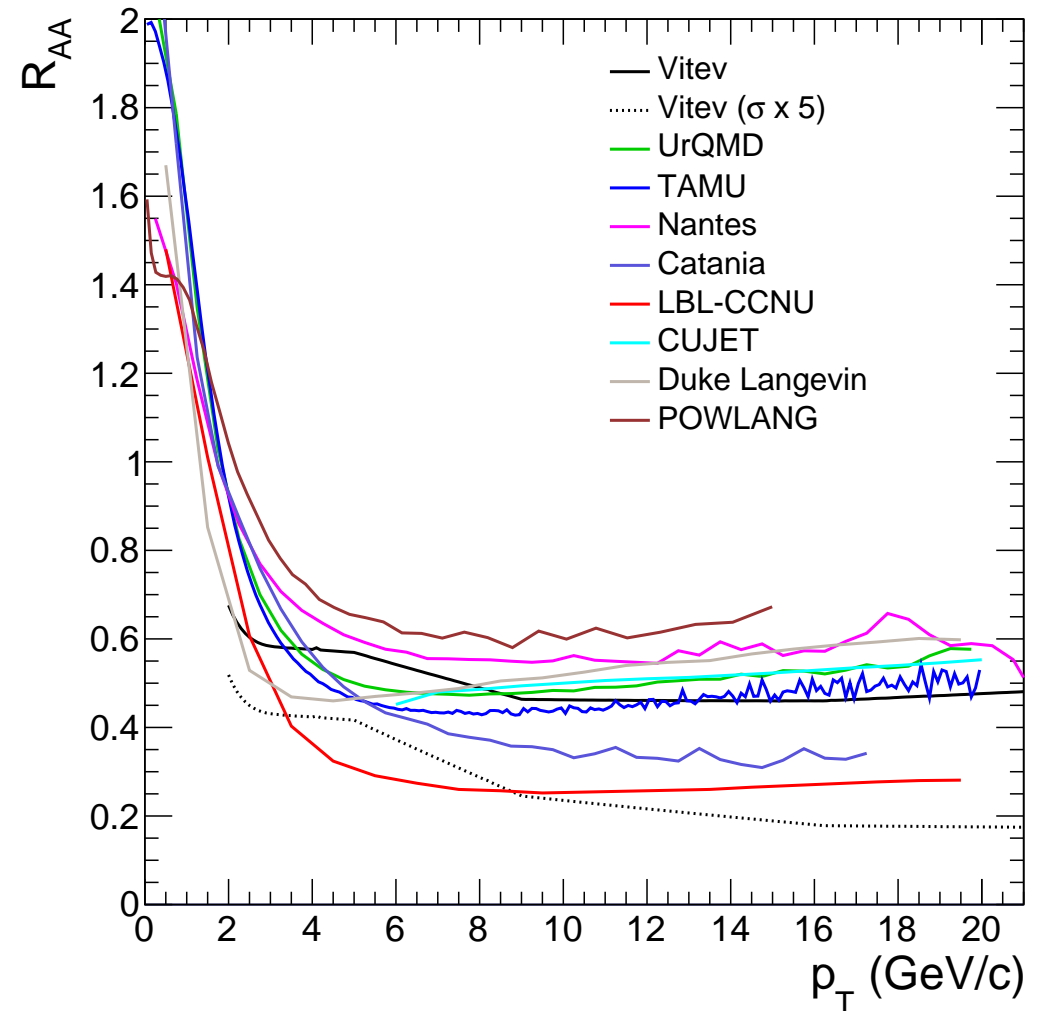
All together now - charm quarks

19 EMMI RRTF - HQ transport coefficients

charm quark in 2.76 TeV Pb-Pb collisions: 0-10%



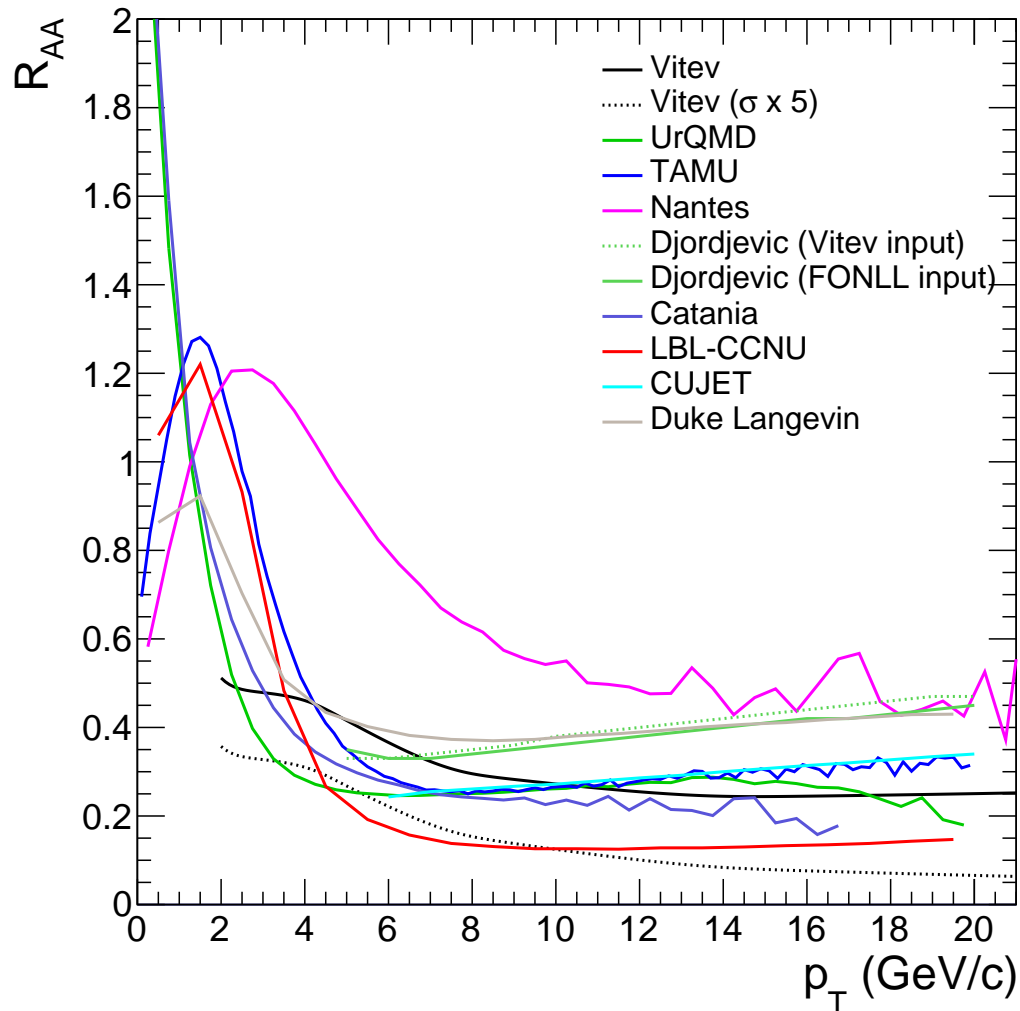
charm quark in 2.76 TeV Pb-Pb collisions: 30-50%



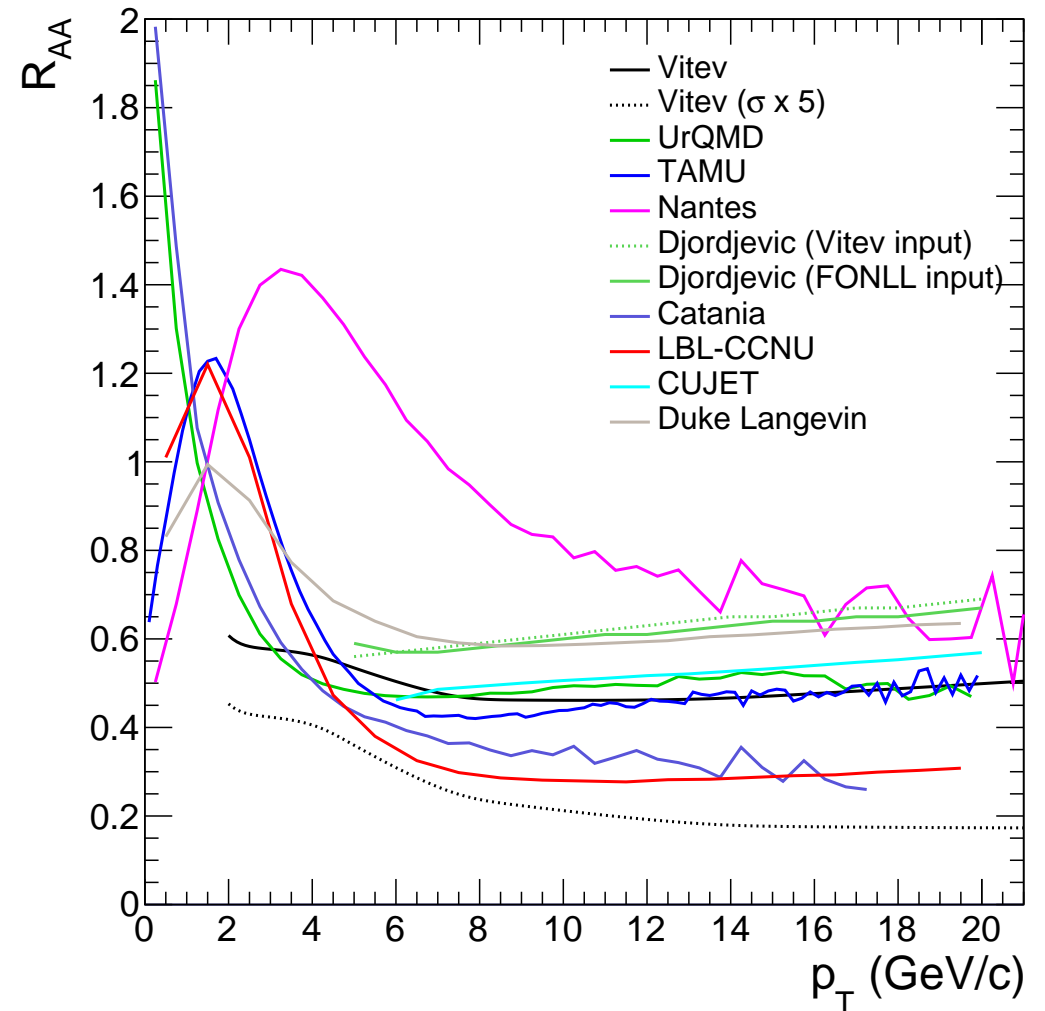
All together now - D mesons

20 EMMI RRTF - HQ transport coefficients

D meson in 2.76 TeV Pb-Pb collisions: 0-10%



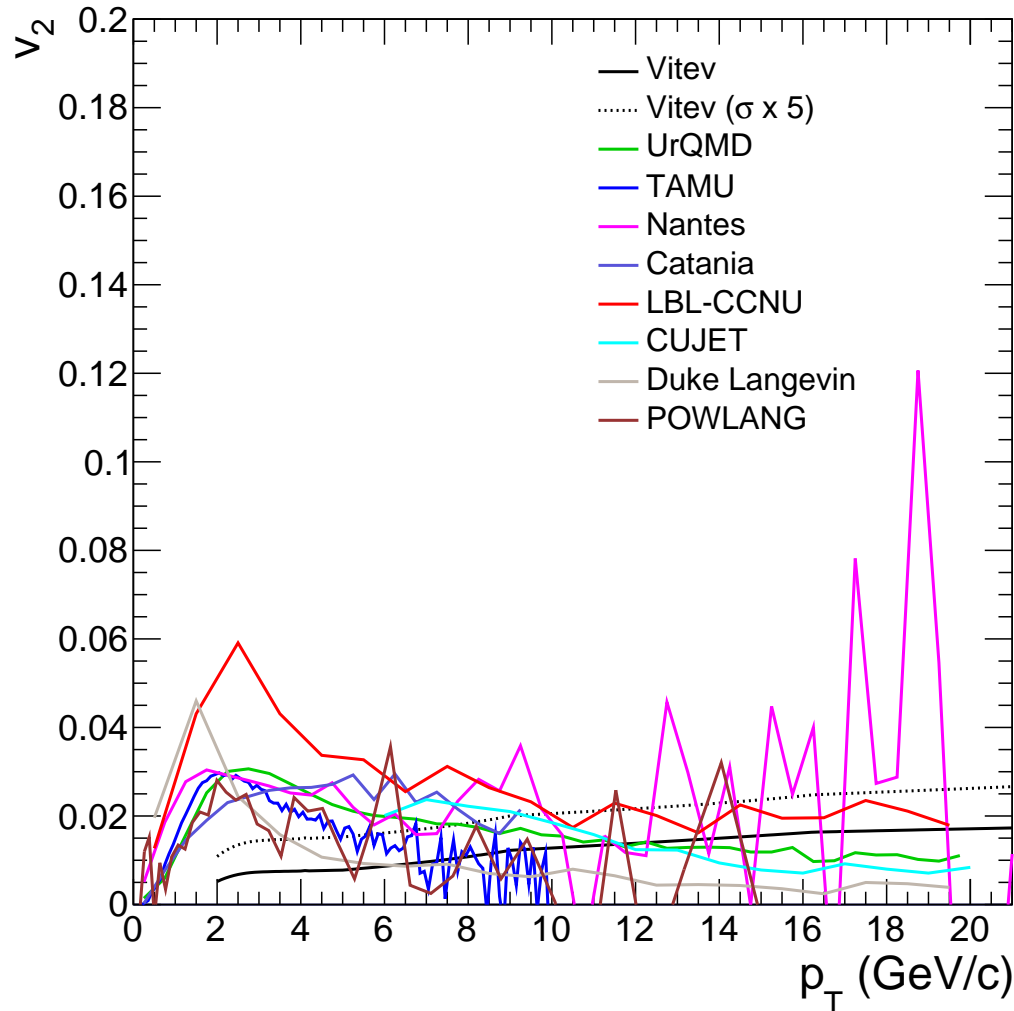
D meson in 2.76 TeV Pb-Pb collisions: 30-50%



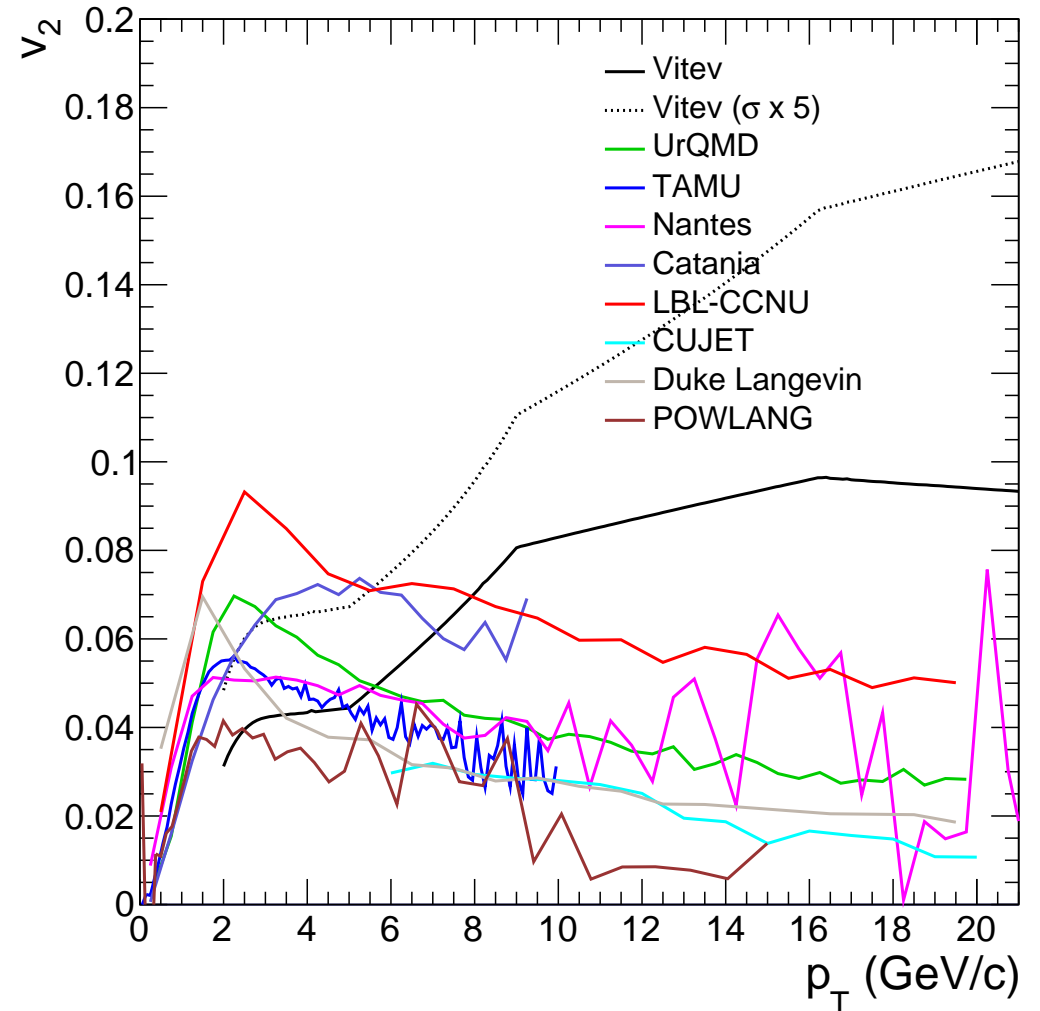
All together now - charm quarks

21 EMMI RRTF - HQ transport coefficients

charm quark in 2.76 TeV Pb-Pb collisions: 0-10%



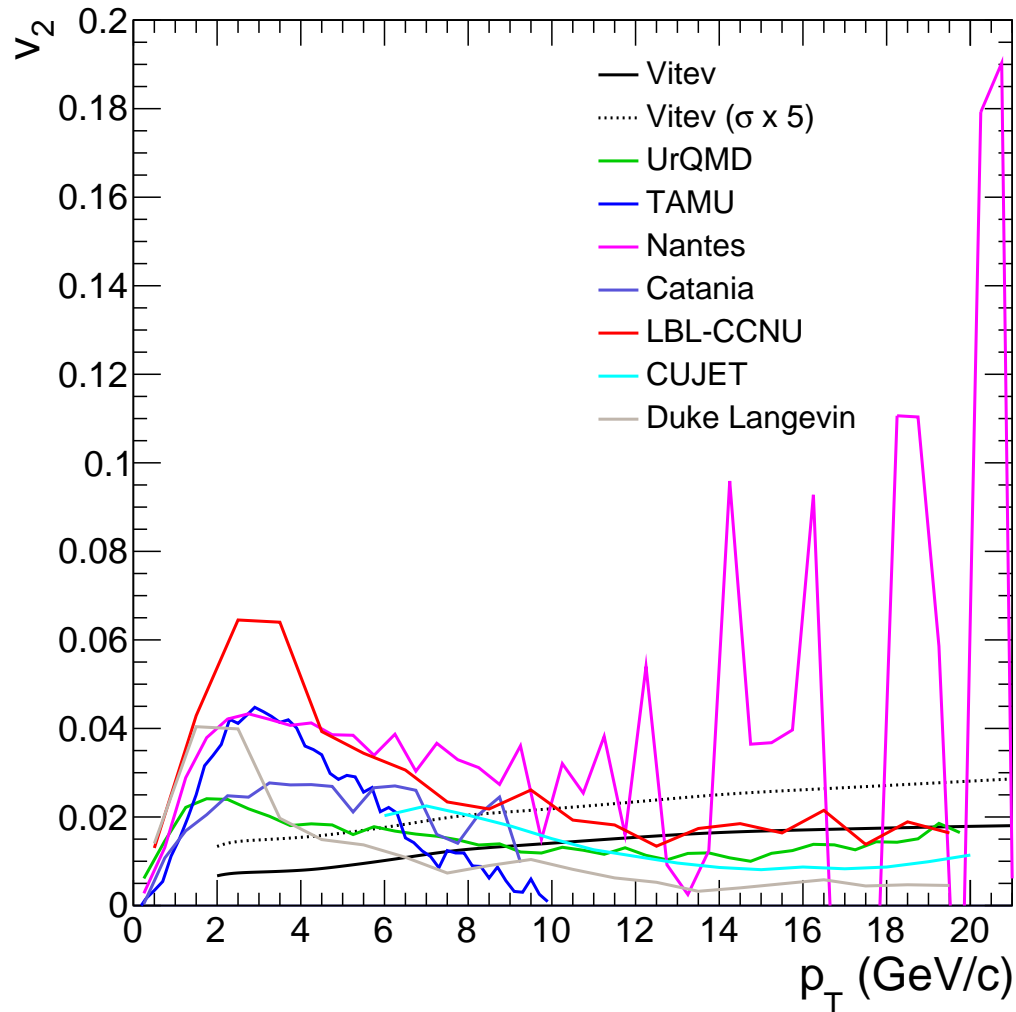
charm quark in 2.76 TeV Pb-Pb collisions: 30-50%



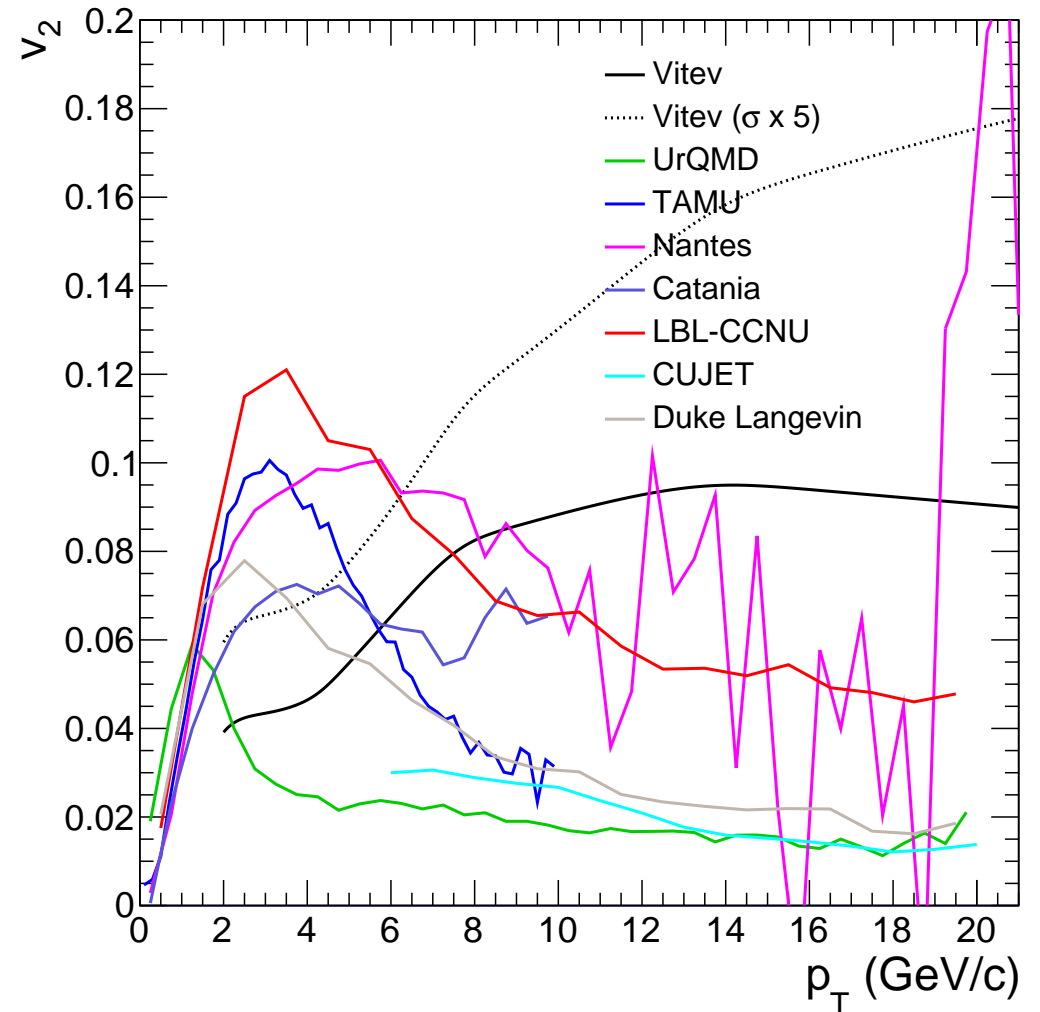
All together now - D mesons

22 EMMI RRTF - HQ transport coefficients

D meson in 2.76 TeV Pb-Pb collisions: 0-10%



D meson in 2.76 TeV Pb-Pb collisions: 30-50%



Hadronization (Min He)

23 EMMI RRTF - HQ transport coefficients

