



Systematic study of energy loss in the QGP for various collision systems at PHENIX





Physics motivation

High p_T suppression has been observed but the mechanism is not well understood.

- Parton energy loss with gluon radiation in QGP
- dE/dx?, \hat{q} ?, Path length dependence?

Fractional momentum loss, S_{loss} provides direct information on the energy loss

• Systematic study is necessary to address questions



PHENIX detector

