Determination of EOS from HI Collisions

- Many factors influence EOS
  - Density and momentum dependence of mean fields.
  - Use of HI collisions brings a sensitivity to in-medium nucleon-nucleon cross section.

- Experiments have placed constraints upon the EOS for symmetric matter.
  - Eliminates very stiff and very soft EOS’s.
  - Progress is tied to improved understanding of the momentum dependence of mean field.

![Graph showing allowed region for EOS determination from HI collisions.](Danielewicz (2000))