



# ***Recent Results from STAR***

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# Physics goal at RHIC

## Identify and study the properties of the matter with partonic degree of freedom:

- nuclear effects in the moderate  $p_T$  region
  - initial conditions?
  - parton energy due to interaction of dense matter?
- Cornin effect
- bulk properties
  - collision dynamics
  - collective motion with the partonic degree of freedom
  - early thermalization (c)



# Outline

- 1) Introduction
- 2) Results from moderate  $p_T$ 
  - suppression of particle yields
  - 'jet' correlations
- 3) Results of bulk properties
  - azimuthal anisotropy
  - particle distributions and yields
- 4) Results from the d+Au run
  - 'Cornin effect' at RHIC
  - open charm
- 5) Summary and outlook