Vertex finding

- Requires vertex position at moderate resolution

- MVD's two concentric barrels allow reconstruction of tracks for vertex finding

- Vertex can be found for z position up to +/- 40 cm, which is approximately the +/- 2 σ length of the luminous region

- Following resolutions and efficiencies are expected from simulations:

Colliding system	Vertex finding resolution	Efficiency
p + p	5 mm	95%
p + Au	5 mm	98%
Au + Au central	2 mm	100%

- The MVD's vertex finding capabilities are quite adequate for the needs of PHENIX