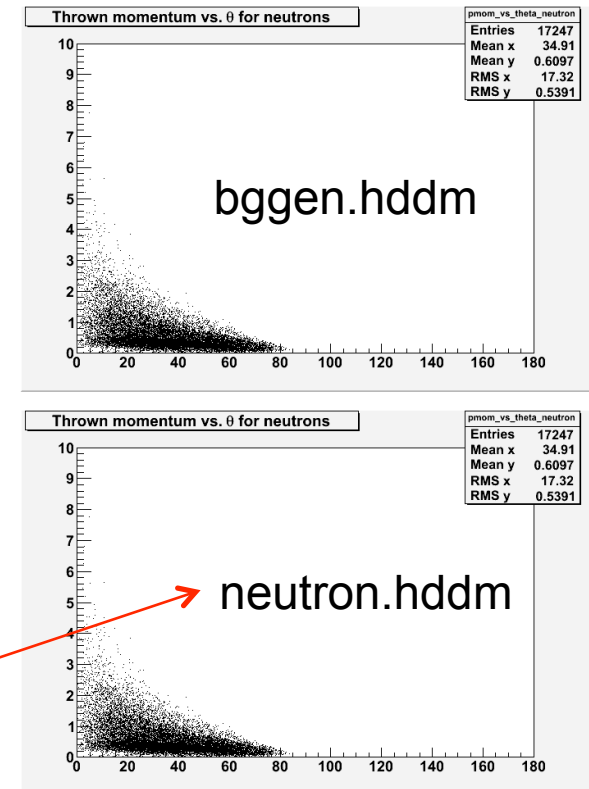


# A Tool to extract particles of a specific type from a set of generated events

`src/programs/Simulation/plugins/extract_ptype_hddm`

## What it's for ...

- *Want to study or develop reconstruction ability for a specific particle type without the complication of multiple particles or multiple types in the event*
- *Allows one to easily get a sample of particles of a specific type with the same phase-space distribution they would have in multi-particle events*
- *Mean resolutions from reconstructed, single particle events may then **mean** something*



## How To Use it ...

1. Run your favorite generator (e.g. bggen)  
`bggen`
2. Extract your favorite particle (e.g. neutron)  
`hd_ana -PPLUGINS=extract_ptype_hddm -PPTYPE=13 bggen.hddm`
3. Make your favorite histogram (e.g. p vs.  $\theta$ )  
`hd_root -PPLUGINS=mcthrown_hists neutron.hddm`