PRECISION LUMINOSITY EXTRACTION @PANDA

LuminosityFit software

- ⊙ modular software for construction of complex models and fits to data

- ⊙ high precision (sys err $\approx 0.1\%$)

- ⊙ correction algorithms included for: coordinate transformations
  - ▷ detector effects (acceptance, resolution)
  - ▷ target & accelerator beam effects (ip distribution and shift; beam tilt and divergence)