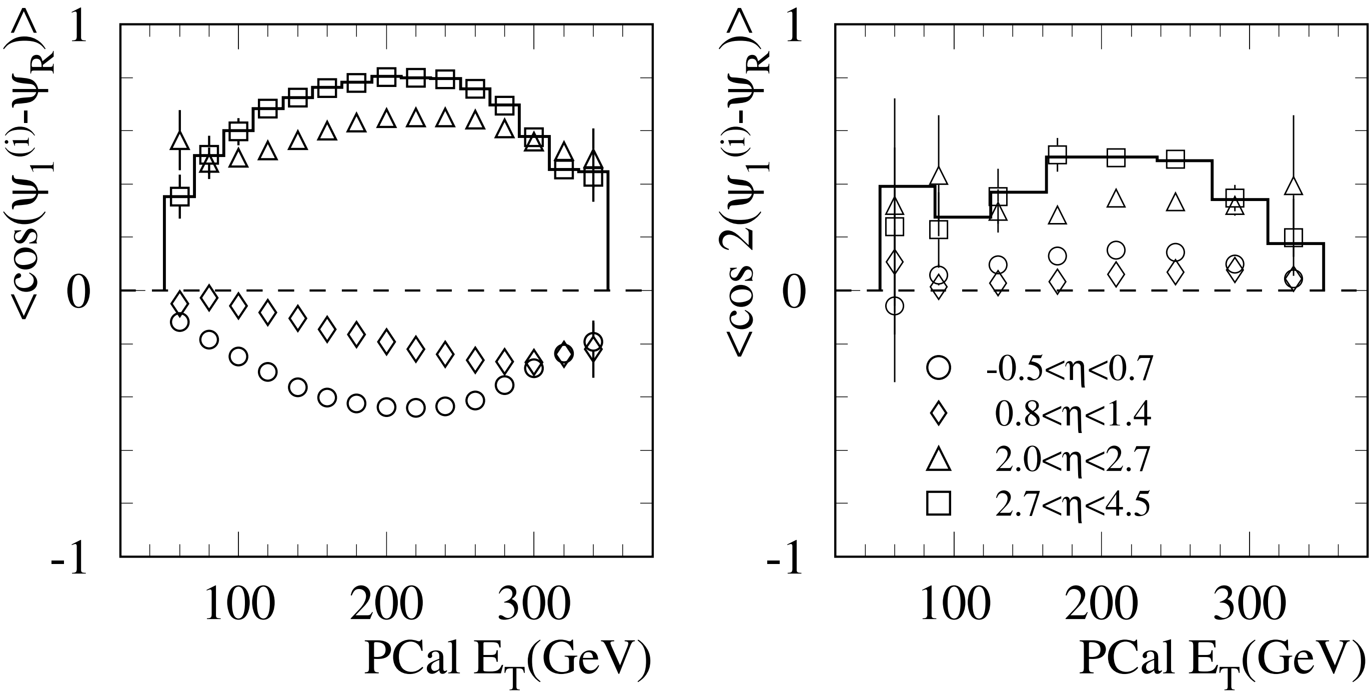
Reaction Plane Resolution

J. Barrette et al., PRC 55 (97), 1420



- influenced by: finite granularity, energy resolution, leakage fluctuations, magnitude of anisotropy.
- can be measured for each η-bin (needs at least 3 bins).
- for two η-bins i , j it is

$$\langle \cos(\Psi_1^{(i)} - \Psi_1^{(j)}) \rangle = \langle \cos(\Psi_1^{(i)} - \Psi_R) \rangle \langle \cos(\Psi_1^{(j)} - \Psi_R) \rangle.$$

- correction yields true anisotropy

$$v_n = \frac{v'_n}{|\langle \cos n(\Psi_1^{(i)} - \Psi_R) \rangle|}$$