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## Medium modification of jet-shape observables in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV using EPOS and JEWEL event generators

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Study of modification of the substructure of charged jets due to the presence of medium provides insight into the energy loss mechanisms of jets in the medium. We have studied the in-medium modification of two jet-shape observables, differential jet-shape ( $\rho(r)$ ) and angularity ( $g$ ) in PbPb collisions at  $\sqrt{s_{NN}}=2.76$  TeV using JEWEL and EPOS event generators. While JEWEL (recoil OFF) does not explain the distribution of lost energy at higher radii with respect to the jet-axis, EPOS-3 explains the effect quite well. This study can provide important new insights on mechanisms regarding the modeling of the medium and hard-soft interactions in heavy ion collisions.

**Authors:** SHEIKH, Ashik Iqbal (Wigner Research Centre for Physics (Wigner RCP) (HU)); SARKAR, Debojit (Wayne State University (US)); Mr SAHA, Sumit Kumar (VECC); PRASAD, Sidharth Kumar (Bose Institute (IN)); CHATTOPADHYAY, Subhasis (Department of Atomic Energy (IN))

**Presenter:** Mr SAHA, Sumit Kumar (VECC)

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