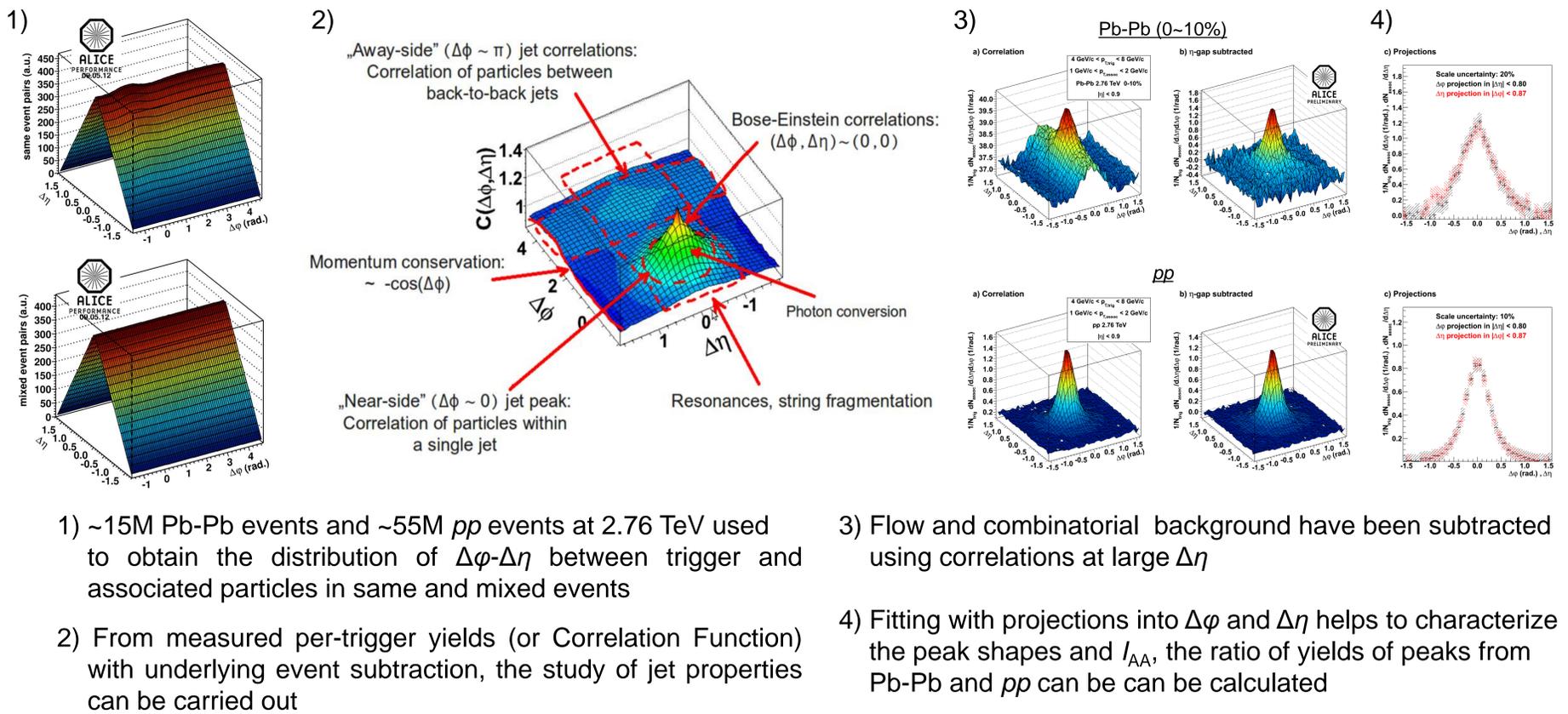


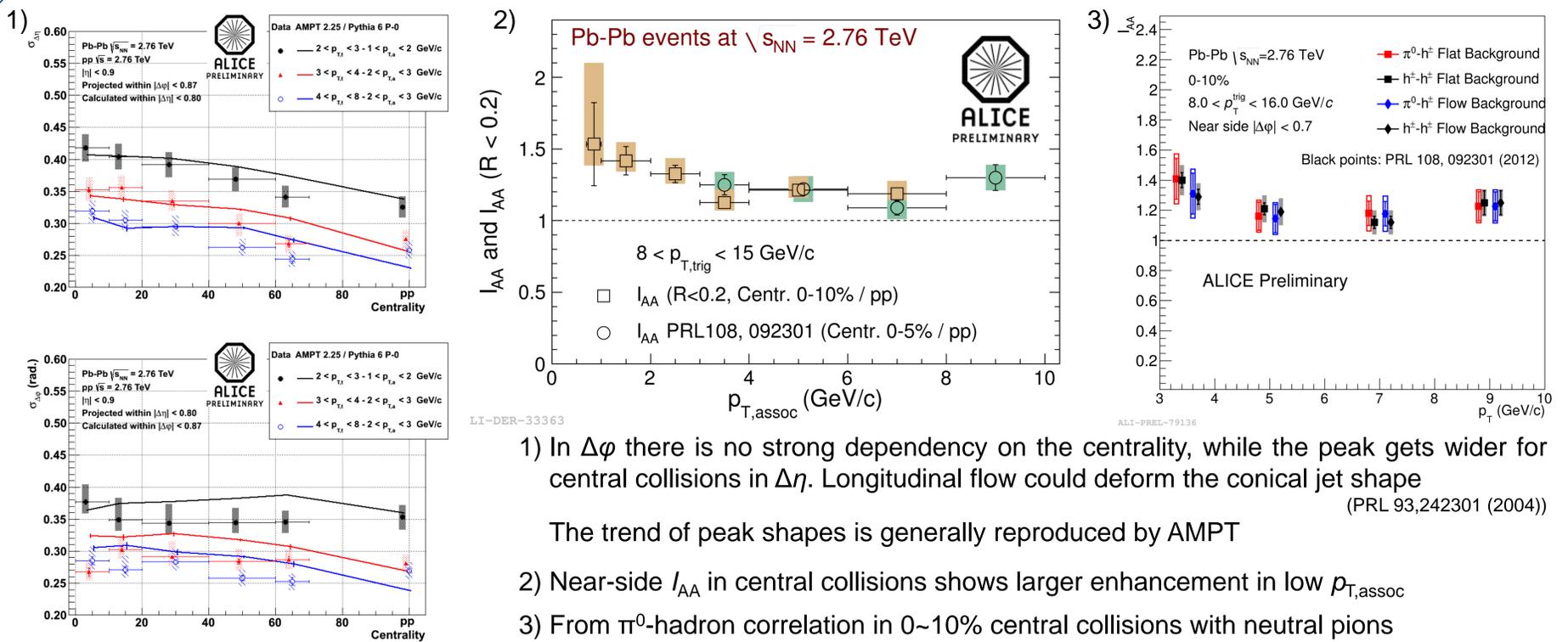
## Introduction

One of the main goals of the research in heavy-ion collisions is to study the properties of deconfined quarks and gluons, the Quark-Gluon Plasma (QGP). Due to the gluon radiation and the multiple scattering inside the hot and dense medium, propagating partons lose their energy and causes interesting phenomenon called jet quenching. However it is a challenge to reconstruct full jets including low  $p_T$  particles because of background fluctuations from underlying events like elliptic flow. At this point, the powerful method, azimuthal two-particle correlation provides convenient way to understand medium effects on the jet fragmentation without full reconstruction of jets.

## Analysis Procedures



## Peak shapes & $I_{AA}$ on near-side



Through the advantage of flexibility of two-particle correlation, further analysis with categorized trigger particle propagating In-plane and Out-of-plane will be measured