

## **Azimuthal correlation between photon/ $\pi^0$ and charged hadrons with the ALICE experiment**

Measurements of the azimuthal correlation between high momentum photons or  $\pi^0$  and charged hadrons allow to investigate parton fragmentation following hard collisions, which will provide new insights on medium effects. We present the experimental analysis which has been applied to the 2010 proton-proton collisions at  $\sqrt{s} = 7$  TeV by the ALICE collaboration. The technique is based on the detection of both neutral particles (photon or  $\pi^0$ ) using the EMCal electromagnetic calorimeter, and charged hadrons using the ALICE central tracking system. These proton-proton results should be seen as a reference for heavy ions collisions analysis, and in a broader approach for further gamma-jet studies.

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**Track Classification:** Jets