

## **$\pi^0$ and eta meson production in pp collisions at 0.9, 2.76 and 7 TeV measured with ALICE PHOS**

The Photon Spectrometer of the ALICE experiment, PHOS, has performed extensive measurements of neutral meson production in proton-proton collisions at the energies of 0.9, 2.76 and 7 TeV. Inclusive spectra of  $\pi^0$  and eta mesons were measured in mid-rapidity in a wide transverse momentum range. Dependence of the  $\pi^0$  spectrum on event multiplicity has been also studied. Comparison with pQCD calculations allows to constrain the model parameters. Phenomenology of  $\pi^0$  production versus collision energy will be discussed. Perspectives on the neutral meson measurements in pp collisions at high  $p_T$  will be demonstrated.

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**Track Classification:** Jets