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【435】 Study of Central Exclusive Production with ALICE

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Proton-proton collisions at LHC can be used to study Central Exclusive diffractive Production (CEP). In CEP the scattering protons remain intact, but exchange sufficient energy to create a new particle X at central rapidity. Experimentally these events are identified by their rapidity-gap topology, with particle production at small rapidities and particle voids at larger rapidities. The centrally produced X is studied by its decay into pairs of pions and kaons.

In this poster we present a CEP study carried out with the ALICE detector. Special emphasis is put on the X-mass region below 2.5 GeV/c² which hosts a number of known scalar mesons and presumably also the lightest glueball.

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