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Hollowness in pp at the LHC

Friday 12 May 2017 19:00 (30 minutes)

Parameterizations of the pp scattering data at the LHC collision energies indicate a hollow in the inelasticity profile of the pp interaction, with, curiously, less absorption for the head-on collisions than for collisions at a non-zero impact parameter. We argue that the hollowness in the impact parameter is a quantum effect; it precludes models of inelastic collisions where inelasticity is obtained by naive folding of partonic densities.

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Session Classification: Friday Afternoon (20min talks + 10min discussions)