25th International Workshop on Deep Inelastic Scattering and Related Topics



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## Forward energy flow and jet production in pp and pA collisions at the LHC

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The CASTOR calorimeter at CMS measures the energy of particles emitted with pseudorapidity between -5.2 and -6.6. It has been operating since the startup of the LHC in 2009 and has taken data in pp, pPb, and PbPb collisions at various centre-of-mass energies during run 1 and run 2. In this presentation we give an overview of some important and unique results obtained with CASTOR, with emphasis on the forward energy flow and jet production in pp collisions with  $\sqrt{s} = 13$  TeV and pA collision with  $\sqrt{s} = 5$  TeV. These results are compared to various models for the underlying event and parton shower dynamics.

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