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Proton-lead measurements using the ATLAS detector

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Measurements of soft and hard particle production in proton-lead collisions at the LHC have provided surprising results. Studies of correlations in the production of soft particles have provided results that suggest strong collective behavior similar to that observed in lead-lead collisions. Measurements of jets and high-pT hadrons have shown an unexpected enhancement in the production of high-pT charged particles and an a similarlarly unexpected variation of the jet yield with proton-lead collision centrality. An overview of ATLAS proton-lead measurements will be presented that illustrate these problems.

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