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PHENIX Results on Geometry Engineering in Small Systems (p+Al, p+Au, d+Au, 3He+Au)

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Azimuthal momentum anisotropies have now been observed in small collision systems at RHIC and the LHC. At RHIC, using the unique ability to select different colliding species, the PHENIX experiment has taken data in p+Al, p+Au, d+Au, and 3He+Au at 200 GeV center-of-mass energy. This geometry engineering allows for a unique test of explanations of azimuthal anisotropy in terms of final state effects versus initial state momentum domain effects. In this talk, we report on elliptic anisotropies in all systems for unidentified hadrons as well as particle identified hadrons. We also report on triangular anisotropies comparing d+Au and 3He+Au results. Detailed model comparisons with all observables are discussed.

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