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# Multi-Particle production and ridge structure in A+A, p+A, and p+p collisions

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The IP-Glasma initial state model [1,2] coupled to relativistic viscous fluid dynamics successfully describes particle spectra, anisotropic flow, and its fluctuations in central to mid-central heavy-ion collisions [3]. Here we extend the study to more peripheral events and determine if the description remains robust. We then perform a direct comparison of peripheral A+A events with p+A and p+p events in the same multiplicity bins. Ridge-like correlations from the initial glasma state can also be computed in the IP-Glasma framework. We analyze their contribution which can be strong in small systems but is reduced in heavy-ion collisions.

[1] B. Schenke, P. Tribedy, R. Venugopalan, Phys. Rev. Lett. 108, 252301 (2012)

[2] B. Schenke, P. Tribedy, R. Venugopalan, Phys. Rev. C89, 024901 (2014)

[3] C. Gale, S. Jeon, B. Schenke, P. Tribedy, R. Venugopalan, Phys. Rev. Lett. 110, 012302 (2013).

## On behalf of collaboration:

None

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