

# Panel discussion on small systems

(Based on inputs from speakers and recent workshops at Rice/INT)

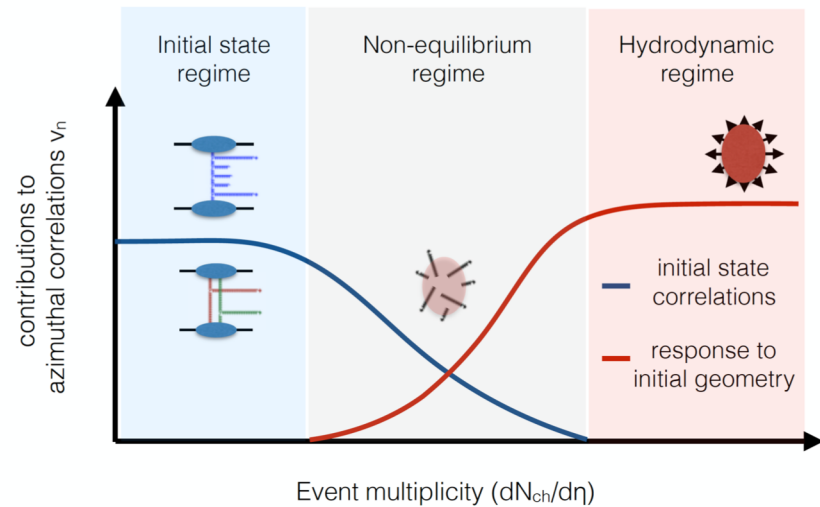
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# Origin of collectivity in small systems?



Emerging consensus: geometry-driven effects likely dominant at low  $p_T$  and high multiplicities (i.e., no need for “new” physics):

➤ Are small systems already in hydro. region (“QGP fluid”, at what  $dN/d\eta$ ?) or still in non-equilibrium region?

Any clear evidence of initial correlations? How to see the onset of collectivity/boundary (if any) between IS and FS regions?

“Nonflow”: how to understand different subtraction methods? Should we aim for an ultimate model to describe full correlation signal? How?

Future directions:

- RHIC: possible extended small system scan (e.g., OO) proposed
- LHC: higher luminosity ( $\times \sim 10$ ) for smallest (pp, pPb), possibly OO, ArAr
- EIC:  $Q^2$  as an extra handle to turn on and off hydro.?