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## Fast Dynamical Evolution of Hadron Resonance Gas via Hagedorn States

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Transport simulations like UrQMD allow to study the time evolution of a pure non-equilibrated Hagedorn state gas towards a thermally equilibrated Hadron Resonance Gas by using dynamics, which unlike strings, fully respect detailed balance. In principle, our prescription offers a genuine understanding for multi-hadronic collisions. Propagation, repopulation, rescatterings and decays of Hagedorn states provide the yields of all hadrons up to a mass of  $m=2.5$  GeV. The quick thermalization and chemicalization within  $t=1-2$  fm/c of the emerging Hadron Resonance Gas exposes Hagedorn states as a tool for a microscopic hadronization.

### On behalf of collaboration:

None

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