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Event-by-event Multistage Heavy-ion Collisions with Initial Strangeness

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We employ a novel event-by-event multistage framework for simulating heavy-ion collisions which includes finite baryon number, electric charge, and strangeness due to fluctuations in the initial state. This novel framework generates an initial condition using the McDIPPER saturation based event generator which has been upgraded to include charge fluctuations, followed by pre-equilibrium evolution in QCD kinetic KoMPoST with conserved charges. This is then followed with BSQ hydrodynamic evolution including diffusion so that we may compare to relevant observables. We showcase results that are directly related to the finite B, S, and Q charges in the initial state.

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