



Anomalous Diffusion of Pions at RHIC

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After pointing out the difference between normal and anomalous diffusion, we consider a hadron resonance cascade (HRC) model simulation for particle emission at RHIC and point out that rescattering in an expanding hadron resonance gas leads to a heavy tail in the source distribution. The results are compared to recent PHENIX measurements of the tail of the particle emitting source in Au+Au collisions at RHIC. In this context, we show

how can one distinguish experimentally the anomalous diffusion of hadrons from a second order QCD phase transition.

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