

Vector meson spin alignment as a probe of spin hydrodynamics at freeze-out

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We argue that a detailed analysis of the spin alignment of vector mesons can serve as a probe of two little-understood aspects of spin dynamics in the vortical fluid: The degree of relaxation between vorticity and parton spin polarization, and the degree of coherence of the hadron wavefunction at freeze-out. We illustrate these with a coalescence model.

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