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Dynamics of relativistic spin-polarized fluid

Monday 12 March 2018 19:00 (30 minutes)

We use recently formulated framework of perfect fluid hydrodynamics with spin to study space-time evolution of spin polarization in heavy-ion collisions.

We consider various initial conditions for the hydrodynamic background and different forms of the spin tensor to study consequences of various physical assumptions for the time evolution of the system's polarization.

[1] W. Florkowski, B. Friman, A.Jaiswal, E. Speranza, arXiv:1705.00587

[2] W. Florkowski, B. Friman, A.Jaiswal, R.Ryblewski, E. Speranza, forthcoming

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