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Dilepton anisotropic flow from hadronic transport

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We present the first results for dielectron anisotropic flow computed directly from hadronic transport in different systems, and explore the different calculation methods. Because leptons are insensitive to the strong interaction, they are mostly undisturbed by the hadronic medium created after a heavy-ion collision, and therefore serve as direct probes for it. In particular, the HADES experiment at GSI measures flow of dielectrons using the reaction plane method, which can lead to large systematic uncertainties. At the low beam energies of GSI, the evolution is mainly off-equilibrium, and hadronic transport provides an appropriate description and gives access to the full phase space, as well as knowledge on the dilepton origin, being a useful tool in studying the mechanisms behind flow generation from this off-equilibrium hadron resonance gas.

Category

Theory

Collaboration (if applicable)

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