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Shear viscosity of the quark-gluon plasma from flow in heavy-ion collisions

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We report an extraction of the ratio of shear viscosity to entropy density (η/s) of the medium created in relativistic heavy-ion collisions at the LHC. With a significant improvement of one of the main sources of theoretical uncertainty, we are able for the first time to quote a precise average value with robust error bars, systematically accounting for all known sources of systematic error (theoretical and experimental).

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