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Bulk & Shear Viscosities in Dense Quark Matter

Friday 9 September 2016 16:30 (1h 30m)

I will review and explain calculations of bulk and shear viscosity in various phases of dense quark matter, in unpaired quark matter as well as in color-superconducting phases such as the color-flavor locked phase. I will discuss and interpret the results, which are relevant for instance for the r-mode instability in rotating stars and thus are measurable, at least indirectly, through astrophysical observations.

Presenter: Dr SCHMITT, A. (University of Southampton)