

Cosmic Magnetism in Voids and Filaments



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Gravitational waves from (magneto)hydrodynamic turbulence at LISA and PTA

Friday, 27 January 2023 10:00 (30 minutes)

Gravitational waves from primordial first order phase transitions offer interesting possibilities to probe physical processes at high energy scales, in the early universe. Several GW sources can act during, and in the aftermath, of the phase transition. Among these, this talk concentrates on the turbulent motion possibly generated in the surrounding plasma, and possibly accompanied by a magnetic field. I will present the outcome of (M)HD simulations as well as an analytical modelling of the turbulence, and discuss observational prospects at both LISA and PTA.

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