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An update on the determination of the sphaleron rate in finite temperature QCD

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The sphaleron rate is a key phenomenological quantity both for the axion thermal production in the early Universe and the Chiral Magnetic Effect occurring in the Quark-Gluon Plasma in presence of a background magnetic field. In this talk we present an extension of our recent determination of the sphaleron rate, both in pure gauge and full QCD, based on the determination of the two-point function of the topological charge density at finite temperature.

Primary authors: BELLINI, Nicolò (Università di Pisa & INFN Pisa); BONANNO, Claudio (IFT UAM/CSIC Madrid); D'ANGELO, Francesco (Università di Pisa & INFN Pisa); Prof. D'ELIA, Massimo (Università di Pisa & INFN Pisa); GIORGIERI, Andrea (University of Pisa); MAIO, Lorenzo (CPT, Marseille)

Presenter: D'ANGELO, Francesco (Università di Pisa & INFN Pisa)

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