

# Thermal Dileptons and Hadrons in Medium

*Saturday, 9 June 2018 09:00 (0:30)*

## Collaboration

## Abstract content

Dilepton radiation from the exploding fireballs formed in energetic collisions of heavy nuclei provides a unique opportunity to investigate medium modifications of the light vector mesons. We discuss theoretical calculations of in-medium spectral functions and how they can help to interpret the experimentally measured dilepton spectra in heavy-ion collisions over a large range of energies, providing a large coverage of baryon density and temperature across the QCD phase diagram. In particular, we elaborate on implications for the restoration of the spontaneously broken chiral symmetry and the transition from hadronic to partonic the degrees of freedom in hot and dense matter.

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**Session Classification :** Plenary Session