

**SEMINARIO**  
**Departamentos de Física Teórica I y II**  
**Universidad Complutense de Madrid**

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**TITULO:** Thermal conductivity and hydrodynamic fluctuations near the QCD critical point

**LUGAR:** FACULTAD DE CIENCIAS FÍSICAS UCM

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**ABSTRACT**

We develop a model of the thermal conductivity in the vicinity of the QCD critical point, that takes the correct critical exponents. Using the boost invariant Bjorken model, we study hydrodynamic fluctuations and the effect of thermal conductivity on correlation functions in heavy ion collisions. We construct the two-particle correlation functions that are seen to be significantly influenced by the presence of the critical point.