
PERTURBATIVE THERMAL QCD: FROM HARD THERMAL LOOPS TO HEAVY IONS AND NEUTRON STARS

Introduction to finite-temperature (and density) QCD

Jacopo Ghiglieri

jacopo.ghiglieri@subatech.in2p3.fr

BIBLIOGRAPHY

- Perturbative Thermal QCD: Formalism and Applications
J. Ghiglieri, A. Kurkela, M. Strickland, A. Vuorinen, Phys.Rept. 880 (2020) [2002.10188](#)
chapter 2 will be the basis of these lectures
 - Basics of Thermal Field Theory
M. Laine, A. Vuorinen, Lect.Notes Phys. 925 (2016) [1701.01554](#)
solid reference for perturbative calculations
 - Some Aspects of the Theory of Heavy Ion Collisions
F. Gelis, [2102.07604](#)
to learn about applications to heavy-ion physics
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