ICTP SAIFR | International Centre for Theoretical Physics
South American Institute for Fundamental Research

ICTP-SAIFR MINICOURSE ON THE CONDENSED MATTER THEORY OF PARTICLE PHYSICS

March 20, 2020

IFT-UNESP Auditorium
São Paulo, Brazil

MICHAEL LISA
(Ohio University, USA)

GIORGIO TORRIERI
(UNICAMP, Brazil)

A historical introduction will be presented on how statistical mechanics has been used to understand the production of particles in hadronic collisions where perturbation theory appears to fail. The Fermi and Landau models will be described and shown to lead to Hagedorn`s derivation of a limiting temperature where hadronic physics breaks down. Our modern understanding of deconfinement and quark gluon plasma will then be described, and there will be a discussion of the search for deconfined matter in heavy ion collisions. The current status of our understanding and open problems will conclude this minicourse.

There is neither registration fee nor registration form, and everybody is welcome to participate.

More information:
http://www.ictp-saifr.org/cmtpp2020

FAPESP ICTP unesp IFT - UNESP

ORGANIZER
Ana Mizher (IFT-UNESP, Brazil)