

EGYPlasmaTalks

QUARK-GLUON PLASMA: FROM LITTLE BANG TO BIG BANG

Dark Energy Accelerated Expansion
Dark Ages
Development of Galaxies, Planets, etc.
kinetic freeze-out
hadronization
lumpy initial energy density
QGP phase
quarks and gluons
degrees of freedom

Rayleigh Light
Plythem
400,000 yrs
inflation
Quantum fluctuations
1st Stars
about 400 million yrs.
Big Bang Expansion
13.7 billion years
dr: NASA

YouTube LIVE zoom

DR. NISEEM MAGDY
UNIVERSITY OF ILLINOIS
HOSTED BY
MOHAMED EZZAT, MSc

THURSDAY, 22 SEP 2022
TIME 17:30 (CAIRO)

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Title: Quark-gluon plasma: From little bang to Big Bang

Speaker: Dr. Niseem Magdy (Stony Brook University and SUNY)

When: 2022-09-22 17:30:00 - **Hosted by:** Mohamed Ezzat, MSc

Abstract: Modern accelerators such as the Relativistic Heavy Ion Collider and the Large Hadron Collider provide unique testing grounds for Quantum Chromodynamics at high energies. A major part of my research deals with the study of the different phases and properties of high energy-density QCD matter produced in ion-ion collisions at RHIC. A major current focus is centered on mapping the QCD phase diagram, elucidating the transport and anomalous transport properties of the Quark-Gluon Plasma, and tests for chiral symmetry restoration. In this overview talk, I am planning to present an introduction to the Quark-Gluon Plasma physics as well as point out some important insights using my recent experimental results.

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