



The banner features the EGYPlasmaTalks logo and a QR code in the top left. The main title is "QUARK-GLUON PLASMA: FROM LITTLE BANG TO BIG BANG". A central image shows a cosmological timeline from the Big Bang to the present, with labels for "inflation", "Dark Ages", "Development of Galaxies, Planets, etc.", "Dark Energy Accelerated Expansion", "lumpy initial energy density", "hadronization", and "kinetic freeze-out". A circular portrait of Dr. Niseem Magdy is on the right. Below the portrait are social media icons for YouTube, Facebook Live, and Zoom. The speaker's name and affiliation are listed: "DR. NISEEM MAGDY, UNIVERSITY OF ILLINOIS". The host is "MOHAMED EZZAT, MSc". The date and time are "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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