



# Seminar, Department of Physics, Bose Institute, Kolkata

## Correlations & Fluctuations: A Tool For Unlocking The Properties of Quark-Gluon Plasma Through ALICE Experiment at CERN

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### Abstract:

By using the tools of correlation and fluctuations studied as a function of (pseudo-)rapidity difference,  $(\Delta\eta)$   $\Delta y$ , and azimuthal angle difference,  $\Delta\phi$ , enable the study of the production and transport of conserved quantum numbers (including charge, strangeness, and baryon number) in relativistic collisions. In this contribution, I will present the recent results on correlations and fluctuations from ALICE and future prospects.

Date/time: May 19, 2023 (Friday) at 3:00 pm

Venue: Physics Seminar Room (204, second floor, UAC, BI)