

Indian Statistical Institute, Chennai Centre

Seminar Announcement / संगोष्ठी की घोषणा

Date/तारीख : 6th December (Tuesday), 2016.

Time/ समय : 4pm – 5pm.

Venue/ स्थान : SETS Auditorium, ISI-Chennai.

Speaker/ वक्ता : Dr. Sarita Agrawal

Affiliation: Indian Institute of Technology – Indore.

Title/शीर्षक: GEOMETRIC PROPERTIES OF BASIC HYPERGEOMETRIC FUNCTIONS

Abstract: In this talk, we discuss certain geometric properties of Gauss hypergeometric and Heine's hypergeometric functions defined on the unit disk. Using the continued fraction technique, we obtain integral representations of some ratios of basic hypergeometric functions. This extends to investigate the geometric properties of the ratios which say that the ratios are analytic in a cut-plane and maps the unit disk or half-planes univalently onto domains that are convex in the direction of the imaginary axis. Also, we focus on sufficient conditions for which the basic hypergeometric functions belonging to a special class of analytic functions and discuss some related open problems.

सभी को आमंत्रित कर रहे हैं।

All are invited.

Seminar Coordinator