Moments in Positivity:
Metric Geometry, Covariance Estimation, Novel Graph Invariant

I will discuss the connections of matrix positivity and its preservers to multiple sub-fields of mathematics: analysis, metric geometry, combinatorics, and also downstream applications. This includes classical results by Schur, Rudin, Loewner, Karlin, and their students: FitzGerald, Horn, Pinkus, and Schoenberg. I will conclude with an application to combinatorics.

Apoorva Khare

Apoorva Khare is Associate Professor in Mathematics at the Indian Institute of Science and member of the Analysis and Probability Research Group. He received a B.Stat (Hons.) from the Indian Statistical Institute, Kolkata in 2000 and then a MS and PhD in Mathematics from the University of Chicago in 2006. Prior to joining IISc in 2017, he held positions at University of California-Riverside, Yale and Stanford Universities. He has a wide range of interests and has been recognised for his work in the areas of analysis, combinatorics and representation theory. He is the recipient of a Ramanujan and a Swarnajayanti Fellowship.

3.30 pm, 28 September 2020

ONLINE COLLOQUIUM
Use this link to join the Zoom meeting -
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