

SIMIS Seminar series on Random matrix theory, Integrable systems and Applications.**Prof. Dong Wang**

School of Mathematical Sciences, University of Chinese Academy of Sciences, Beijing 100049, P. R. China.

“Local statistics of Muttalib-Borodin ensemble in the hard to soft transitive regime”**Abstract**

Muttalib-Borodin ensemble is a typical biorthogonal ensemble. It has a hard edge limit that is expressed by Wright's generalized Bessel functions, or by Meijer G functions if the parameter θ is an integer. This hard edge limit does not occur in orthogonal polynomial ensembles. In this talk we consider the transition from the hard edge limit to the soft edge limit of the Muttalib-Borodin ensemble with an integer θ parameter, and find an interpolation from the Meijer G correlation kernel to the Airy correlation kernel. This is joint work with Shui-Xia Xu.

Biography of the speaker

B.S. Peking University 2003

Ph.D. Brandeis University 2008

University of Montreal 2008 – 2009

University of Michigan 2009 – 2012

National University of Singapore 2012 – 2021

University of Chinese Academy of Sciences 2021 – present

Date and Place: 15th November 2024, 13:30h-14:30h. Room: 1410. Send comments or questions to: Miguel Tierz to tierz at simis.cn