

Department of Mathematics, BGU

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## OA/OT Seminar

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*On Tuesday, November ,19 2019*

*At 11:00 – 12:00*

*In 101-*

Jaydeb Sarkar (Indian Statistical Institute)

will talk about

### **Joint invariant subspaces on the polydisc and a commutant lifting theorem on the unit ball**

Abstract: In this talk we will discuss two central problems in multivariable operator theory: (1) joint invariant subspaces of the tuple of shift operators on the Hardy space over the unit polydisc, and (2) a commutant lifting theorem of the tuple of shift operator on certain analytic reproducing kernel Hilbert spaces over the unit ball. If time permits, we will also talk about Nevanlinna-Pick interpolation theorem and a relevant factorization result for multipliers on reproducing kernel Hilbert spaces over the unit ball.

**Please Note the Unusual Time!**