**THURSDAY- April 20**

**Phillips Hall 330 – Registration-Refreshments – 2:30 pm**

**Phillips Hall 332 – Colloquium Talk – 4:00pm- 5:00pm**

**by Prof. Elon Lindenstrauss**

**Joining of higher rank homogenous actions**

(j\w M. Einsiedler)

Higher rank homogeneous actions display subtle rigidity properties that are not yet well understood. One situation where the state of knowledge seems to be quite satisfactory is regarding joinings of higher rank diagonalizable actions on quotients of semisimple groups.

This situation appears quite naturally in applications, and I will survey a few of these, including a result of Aka, Einsiedler and Shapira regarding the joint distribution of points on a sphere and the shape of its perpendicular lattice.

**DINNER- TOP of the Hill – 6:00 pm**

                                **FRIDAY – April 21- Room – Stone Center -Hickok Room**

 9:00 am- 9:40 am – Tushar Das –

A variational principle in the parametric geometry of numbers

9:50 am -10:30 am – Anton Solomko –

                                       On rank and isomorphism of von Neumann special flows

10:40 am – 11:30 am – Daniel Mansfield

                                       The Hausdorff dimension of a G-measure –

11:40 am – 12: 30 am — Francesco Cellarosi

                                       The dynamical construction of an automorphic function

**Lunch break**

2: 20 pm – 3:00 pm  Sebastian Donoso

                                    Quantitative multiple recurrence for two and three transformations.

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3:20 pm – 4:00pm – Olena Karpel

                                     Decisive Bratteli-Vershik models

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                                **SATURDAY – April 22 – Room – 332- Phillips Hall**

9: 30 am – 10:10 am – Joe Rosenblatt

                                      [Good functions and bad functions for averaging](https://ergwork.web.unc.edu/good-functions-and-bad-functions-for-averaging-processes2/)

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10:30 am – 11:10 am -Mrinal Roychowdhury

                                   An overview of optimal quantization

**– Lunch break**

2:00 pm- 2:40 pm – Victoria Sadovskaya

                                    Periodic approximation of Lyapunov exponents for Banach cocycles

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3:00pm – 4:00 pm –  **Problems session**

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9:30 am – 10:10 am – TBA

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10:30 am – 11:10 am – Michael Lin

                                    [Ergodic theorems and geometry of Banach spaces](https://ergwork.web.unc.edu/unc17-abstract3/)

**End of the workshop**