



INSTITUTUL DE MATEMATICA “SIMION STOILOW” AL ACADEMIEI ROMANE

In cadrul Seminarului

*Spectral analysis and pseudodifferential operators*

va avea loc conferinta cu titlul

# *Random permutations and prime numbers*

*sustinută de*

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(Universitatea din Zurich)

**Miercuri, 7 august, ora 10:00, la sediul IMAR, etaj III, sala 306 (C. Banica)**

**Abstract.** *The goal of this talk is to propose a new framework, which can be viewed as a higher order CLT, and from which one can derive precise deviations results or distributional approximations. We illustrate this with two examples, one coming from random permutations (and models from the study of the Bose quantum gas) and the other one from arithmetic. We shall also see that there seems to exist some deep links between the two examples, similar to the conjectured links between random unitary matrices and the moments of the Riemann zeta function.*