

BENEMÉRITA UNIVERSIDAD AUTÓNOMA DE PUEBLA



**INSTITUTO DE FÍSICA
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**SEMINARIO
“DR. JESUS REYES CORONA”**

“Macroscopic description of quantum correlations in multipartite systems”

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Macroscopic properties of N-qubit systems can be described by discrete distributions in a 3-dim space of symmetric measurements. Such distributions contain full and non-redundant information about any collective (invariant under particle permutations) observable in an arbitrary state and can be used for visualization and analysis of general features of quantum states. We show that the analytical properties of such distributions can be used for characterization of quantum correlations in the limit of large number of particles. The results are applied for description of quantum thermalization processes and quantum phase transitions in spin-like systems.

**Auditorio-IFUAP
Viernes 6 de Septiembre de 2019
13:00 Hrs.**