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ΣΕΜΙΝΑΡΙΟ ΚΕΝΤΡΟΥ ΚΒΑΝΤΙΚΗΣ ΠΟΛΥΠΛΟΚΟΤΗΤΑΣ & ΝΑΝΟΤΕΧΝΟΛΟΓΙΑΣ/
CCQCN SEMINAR

Tuesday, 10 June 2014

11:00-12:00

3rd Floor Seminar Room

Representations for the symmetric spin $\frac{1}{2}$ subspace and entanglement classification

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Abstract

A symmetric under permutations state of spins is habitually expressed over the Dicke basis. An alternative representation with geometric aspects has been suggested some time ago by E. Majorana and this has been proven advantageous in some cases. In this talk, I am going to show that a third independent representation is possible for the vast majority of symmetric states. The main motivation for this mathematical construction has been the description of multipartite entanglement in the symmetric subspace. I am going to present our results on the problem of entanglement's classification in parallel with the aspects of the suggested representation.

