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Contribution ID: 4129 Type: **Oral not-in-competition (Graduate Student) / Orale non-compétitive (Étudiant(e) du 2e ou 3e cycle)**

(G) Concurrence on a 16-site spin-1/2 pyrochlore cluster

Thursday 30 May 2024 09:15 (15 minutes)

We use the methods of group theory to completely block-diagonalize the general, 4-parameter exchange Hamiltonian of a 16-site spin-1/2 pyrochlore cluster. By using the reduced density matrices, we can calculate the concurrence between different spin sites at $T=0$ and when T is small.

Keyword-1

block-diagonalize

Keyword-2

spin-1/2 pyrochlore

Keyword-3

concurrence

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Session Classification: (DCMMP) R1-5 Quantum Materials II | Matériaux quantiques II (DPMCM)

Track Classification: Technical Sessions / Sessions techniques: Condensed Matter and Materials Physics / Physique de la matière condensée et matériaux (DCMMP-DPMCM)