

GEOMETRIC DESCRIPTION OF QUANTUM SPIN SYSTEMS AND X-RAY RADIATION

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A new approach to quantum spin systems based upon Majorana's stellar representation and upon Maxwell's multipoles is introduced. It is entirely based upon geometric concepts that enable a very natural and transparent description of symmetries. The method can be generalized to describe systems of many interacting spins and the physical properties of spin systems with exotic order parameters. The approach opens a new way for a unified description of the interaction of spin systems with X-rays.

FRIDAY,
16.10.2015

2:00 PM

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