

Enigmas of the $sp^{\hbar}in^x$

Wednesday 10 December 2025 10:50 (40 minutes)

Beyond the well-known epistemological and foundational problems of quantum theory (measurement theory, entanglement, classical limit, etc.), there are others conceptual questions which have been somewhat neglected in the past decades.

I will discuss five of these open questions, all connected with the notion of spin:

- the puzzle of the intrinsic magnetic moment
- the spin-forces connexion
- the spin-statistics connexion
- the spin-charges connexion
- the mystery of spin renormalization

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Session Classification: Quantum mechanics