

## VII Leopoldo García-Colín Mexican Meeting on Mathematical and Experimental Physics



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### **OSCAR ROSAS-ORTIZ: Supersymmetric Approach to Quantum Mechanics**

*Friday, 21 February 2020 12:30 (1 hour)*

The supersymmetric formulation of quantum mechanics is a subject of intense activity in contemporary physics. It is addressed to analyze the spectral properties of exactly solvable potentials as well as to construct new integrable quantum models. In this talk we revisit the progress of such formulation since the introduction of the factorization method by Dirac to the construction of non-Hermitian systems with all-real spectra that may be used to model open quantum systems with balanced gain (acceptor) and loss (donor) profile

**Session Classification:** PLENARY TALKS

**Track Classification:** SYMPOSIUM ON SCATTERING, QUANTUM AND CLASSICAL TRANSPORT