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## Magnetism on the Shastry-Sutherland lattice

*Monday 5 January 2026 10:30 (35 minutes)*

The Shastry-Sutherland lattice, also known as the orthogonal dimer lattice, is a paradigmatic geometry of frustrated magnetism both for classical and quantum spins. In this talk, I will report on extensive tensor network simulations of that model that have allowed us to understand the remarkably rich phase diagram of the spin-1/2 Shastry-Sutherland  $\text{SrCu}_2(\text{BO}_3)_2$  under pressure and magnetic field, and the intriguing magnetization plateaus of  $\text{Er}_2\text{Be}_2\text{GeO}_7$ , a recent rare-earth based realization of the Ising model on the Shastry-Sutherland lattice.

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