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## Quantum Computing for Fundamental Physics in NISQ era

*Wednesday 4 December 2024 12:20 (30 minutes)*

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Tomaž Prosen will discuss the current status of quantum computing in NISQ era in the context its utility in fundamental physics research. As an example he will present his recent collaboration with Google Quantum AI lab on simulating quantum transport and full counting statistics in quantum magnets.

Tomaž Prosen is a Full Professor at the Faculty for mathematics and physics, University of Ljubljana, and leads a research group for Nonequilibrium quantum and statistical physics. His main research focus is in quantum many-body physics and exactly solvable models of dynamics.

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**Session Classification:** Slovenian Supercomputing Network Day (International)