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Quantum Energetics

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Quantum energetics is an emerging field exploring the relationships between energy, information and entropy at quantum scales –yielding exciting questions e.g. “At the quantum level, the laws of physics are reversible, so is there anything like quantum irreversibility?” “In quantum physics, measuring can put systems in motion –so can I fuel a quantum engine, just by looking at it?”. In this colloquium, I will present the bases of the field and how it relates to thermodynamics. I will finally present how quantum energetics may contribute to keep in check the energy cost of emerging quantum technologies.

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Classification de Session: Conférences plénières