

FQXi

FOUNDATIONAL QUESTIONS INSTITUTE

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[2006 Foundational Questions in Physics and Cosmology Awardees](#)

2019 Information as Fuel

The Information as Fuel program is FQXi's first RFP on experiments and is funded via a grant from [Templeton World Charity Foundation](#).

The PIs listed were selected by a grant review panel and will be recommended for funding through a donor-advised fund at the Silicon Valley Community Foundation.

Display Large Grant awardees from: ▼

Awardee 	Institution	Value 	Project Title
John Bechhoefer	Simon Fraser University	\$633,293	Maxwell's demon in the real world: Experiments on the constraints governing information processing
Franco Nori / Jukka Pekola	RIKEN / Aalto University	\$909,500	Exploring the fundamental limits set by thermodynamics in the quantum regime
Arkady Fedorov / Gerard Milburn / Sally Shrapnel	University of Queensland	\$949,708	Information as fuel for a quantum clock
Peter Samuelsson / Ville Maisi / Klaus Ensslin / Christopher Jarzynski	Lund University / ETH Zürich / University of Maryland	\$1,073,137	Information-to-work conversion from classical to quantum – a nanoscale electronic demon in double quantum dots.
Benjamin Huard / Alexia Auffèves / Massimiliano Esposito	Ecole Normale Supérieure de Lyon / Institut Néel, CNRS, Grenoble / University of Luxembourg, Luxembourg	\$1,215,386	Information as fuel in colloids and superconducting quantum circuits
Jens Eisert / Jörg Schmiedmayer / Marcus Huber	Freie Universität Berlin / Atominstitut Vienna / IQOQI Vienna	\$1,345,591	Fueling quantum field machines with information
Natalia Ares	University of Oxford	\$1,815,039	Nanomechanics in the solid-state for quantum information thermodynamics (NanoQIT)
TOTAL		\$7,941,654	