

JOINT TUFTS/MIT COSMOLOGY SEMINAR

A Classical-Quantum Correspondence

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We show that certain quantum systems in non-trivial classical backgrounds can be mapped into entirely classical systems in higher dimensions. The evolution of the classical system can be used to obtain the particle production rate as well as the quantum backreaction on the classical background. The technique has many potential applications, including breather/oscillon dynamics and black hole Hawking radiation and evaporation.

Wednesday, December 4, 2019, 2:30 pm
574 Boston Ave, Room 310
Tufts University

Refreshments at 2:00 outside room 304