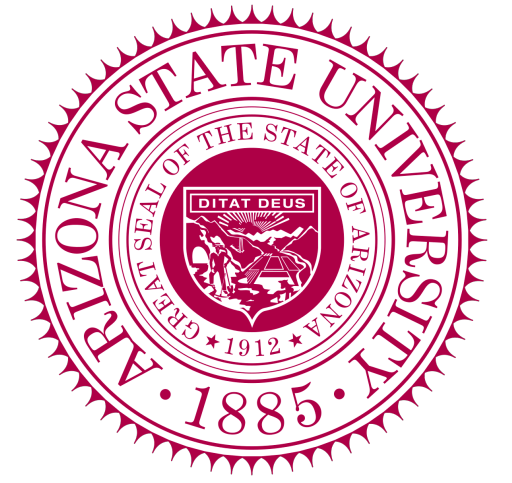


APC colloquium

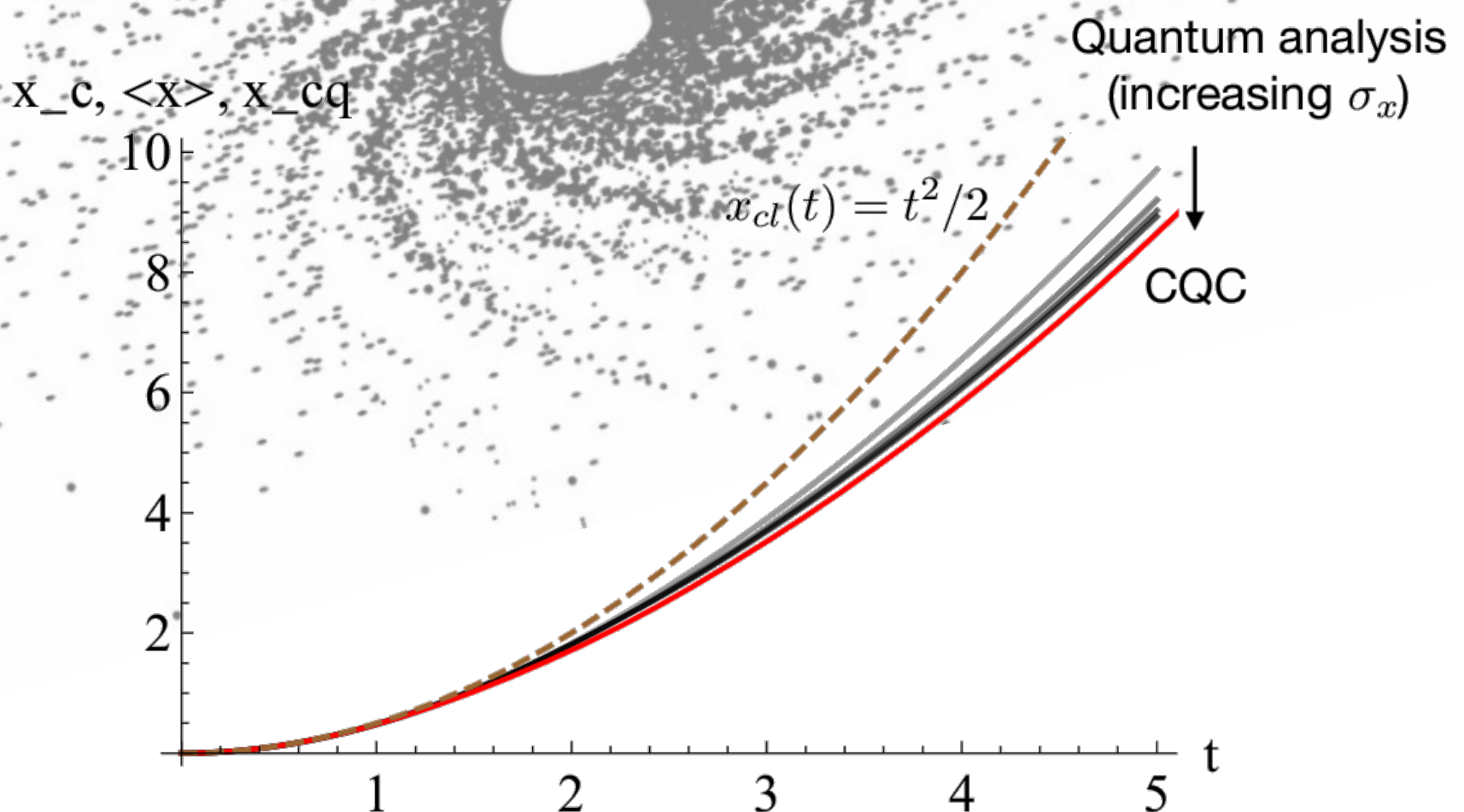


Friday June 14th,
at 11am
in room 454A



A Classical-Quantum Correspondence

Tanmay Vachaspati
(Arizona State University)



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, Hawking radiation and black hole evaporation, and particle production during inflation

Next dates: UFR seminar on June 21st, followed by **Daniel Altschuler** (University of Puerto Rico) on June 28th, 11am in PGG