



Department of
Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

**Quantum Complexity in the Krylov basis
(Zoom Seminar)**

**Pawel Caputa
(University of Warsaw)**

Date: October 17, 2022

Time: 2.00 PM IST

Zoom link shall be shared separately



I will review a recent progress on defining a universal measure of quantum complexity based on the Krylov basis. In particular, after introducing some of the Krylov basis techniques, I will discuss the "Spread Complexity" measure for quantum states and its main properties. The talk will be based on our recent results: <https://arxiv.org/abs/2202.06957> <https://arxiv.org/abs/2109.03824>