

Quantum simulation of Unruh effect in trapped ion

Wednesday, 4 December 2024 11:50 (30)

In this talk, we will introduced our recent experiment about quantum simulation of Unruh effect in trapped ion. There are two topics: 1) how the superposition of trajectories affects the Unruh effect and particle creation from vacuum fluctuations; 2) observation of timelike Unruh effect, and verification that the Rindler spacetime is the fastest scrambler in nature pointed out by Yasuhiro Sekinoab and L. Susskind (“ Fast scramblers”, JHEP 10 (2008) 065).

Presenter(s) : TIAN, Ze-Hua (Hangzhou Normal University)

Session Classification : Day5 Main venue