



Seminar, Department of Physics, Bose Institute, Kolkata

Shockwaves in black hole microstate geometries

Dr. Bidisha Chakrabarty

University of Southampton, UK

Abstract: I will present the results of our last paper, arxiv: 2112.08378. I will start by reviewing two-charge black hole microstates and their CFT duals. I will discuss scrambling of these microstates in presence of shockwave by considering the simplest example of circular supertube with shockwave in the context of supergravity. I will identify the dual CFT states of this configuration using AdS/CFT correspondence. I will then talk about the main outcome of our paper that is construction of the first family of asymptotically-flat supersymmetric three-charge microstate solutions containing shockwave and identifying their dual CFT states.

Date/time: March 21, 2023 at 3:00 pm

Venue: Physics Seminar Room (204, second floor, UAC, BI)