

Vyacheslav Lysov (OIST)

Title: "Journey to the microscopic derivation of the Bekenstein-Hawking formula"

I will briefly review the major steps in the progress of understanding the microscopic derivation of the Bekenstein-Hawking formula: string states counting, AdS/CFT, Kerr/CFT and the most recent soft hair approach.

Then I will discuss the details the soft hair approach including recent progress and problems to solve.