



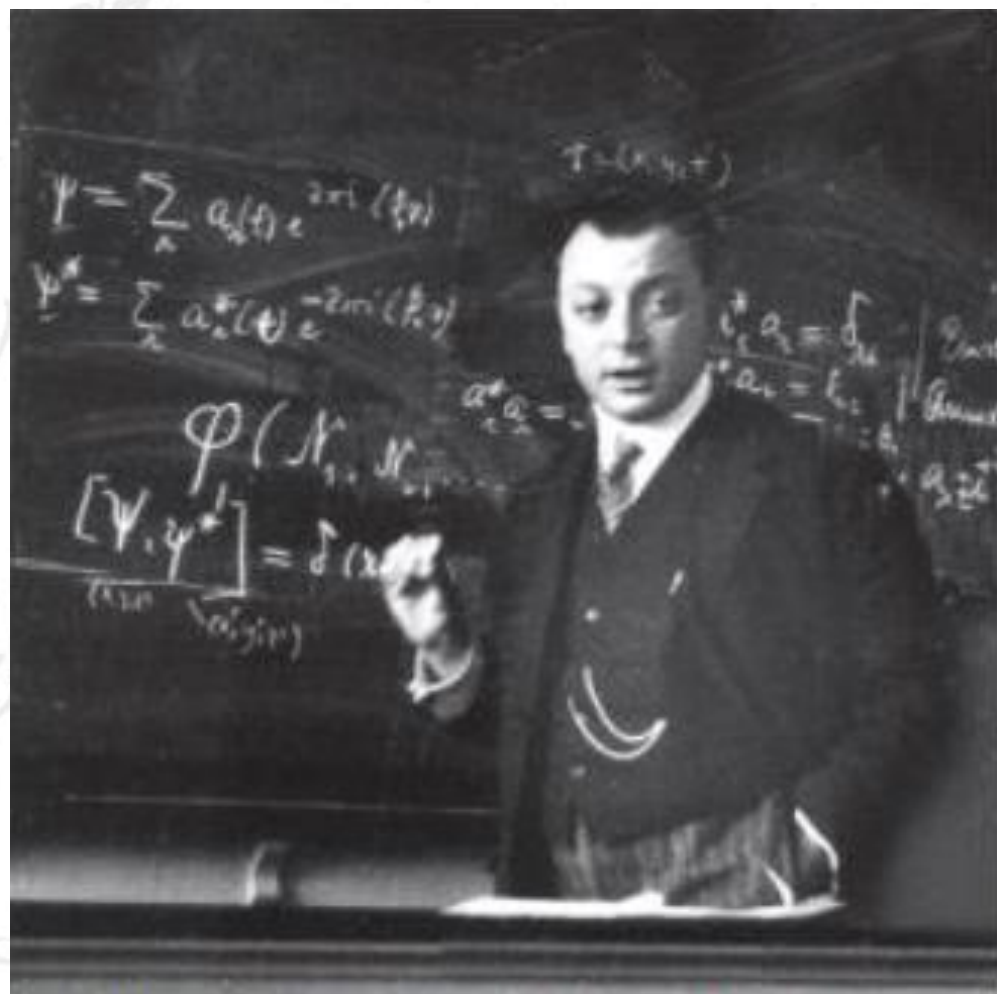
WOLFGANG
PAULI
CENTRE

Interdisciplinary centre
for theoretical physics

WPC Masterclass

14 - 17 January 2025

DESY Hamburg
& University of Hamburg



Invitation to Black Hole Thermodynamics

Prof. Dr. Edward Witten
Institute for Advanced Studies
Princeton

Abstract: Since the work of Bekenstein and Hawking over half a century ago, it has been understood that although classically a black hole is a featureless object that satisfies a "no hair theorem", quantum mechanically a black hole behaves as a complex many-body system that obeys the laws of thermodynamics and statistical mechanics. I will provide an introduction to some of the old and new ideas in this subject, in which much is understood and much is not understood.

This event is supported by the Cluster of Excellence Quantum Universe and the CRC 1624 Higher Structures, Moduli Spaces and Integrability

CLUSTER OF EXCELLENCE **CRC 1624**
QUANTUM UNIVERSE HIGHER STRUCTURES, MODULI
SPACES AND INTEGRABILITY

More information
<https://indico.desy.de/event/46572>
wpc-coordination@desy.de

