



Department of
Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

A new type of extremal black hole

(Zoom Seminar)

Gary Horowitz

(UCSB)

Date: January 24, 2022

Time: 9.00 AM IST

Zoom link shall be shared separately



I describe a family of four-dimensional, asymptotically flat, charged black holes that develop (charged) scalar hair as one increases their charge at fixed mass. Surprisingly, the maximum charge for given mass is a nonsingular hairy black hole with nonzero Hawking temperature. The implications for Hawking evaporation are discussed.