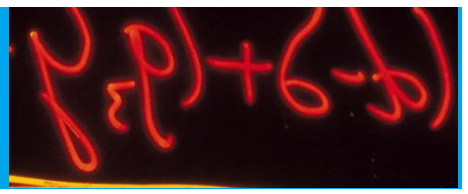
DESY
Particle and Astroparticle Physics Colloquium

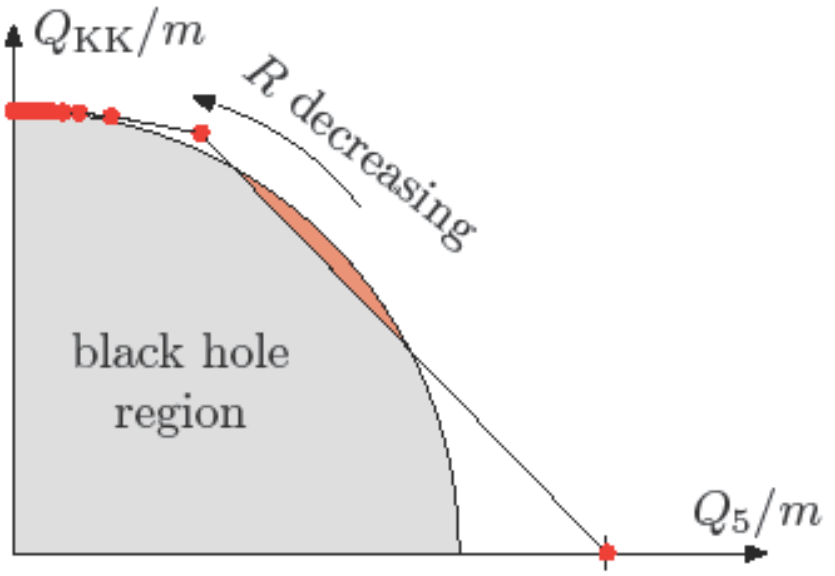


The Weak Gravity Conjecture: from Quantum Gravity to the Real World.

Tuesday, 31 May, 2022 **Webcast 16:00 h**

Ben Heidenreich (University of Massachusetts)

The Weak Gravity Conjecture (WGC) requires the existence of a charged particle with charge-to-mass ratio at least as large as that of a maximally charged black hole. This simple conjecture and its close relatives – thought to hold in any consistent theory of quantum gravity – have wide-reaching consequences ranging from axion inflation to fifth forces to geometry and beyond. In this talk, I will review the motivation and evidence for the WGC, along with some of its consequences.



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