

The Weak Gravity Conjecture and Repulsive Forces

Tuesday 25 June 2019 10:00 (30 minutes)

The Weak Gravity Conjecture (WGC) has a variant based on repulsive long-range forces. I discuss this “Repulsive Force Conjecture” (RFC) in detail, describing its relation to the WGC and to black holes, and what evidence supports the conjecture. I also discuss strong forms of the conjecture, such as the “sublattice RFC”, how these are realized in perturbative string theory, and how all of these conjectures relate to BPS states.

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