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Microstate geometries and the CTCs problem

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Microstate geometries are smooth horizonless solutions of supergravity theories, which are claimed to represent the classical description of the microstates of a black hole. So far, no systematic procedure to construct these type of solutions was known. I will talk about the results of arXiv:1709.03985, where we argue that the problem of constructing explicit solutions can be boiled down to the evaluation of an algebraic constraint, allowing us to design a systematic procedure to generate these solutions.

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