

Black holes in Maxwell-Einstein Theory

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In this talk, I present a criterion developed in [1] for the emergence of black holes (in the strong sense of regions of finite lifetime) in Maxwell-Einstein Theory, the usual canonical coupling between electrodynamics and gravity. The tools for the proof are, on one hand, a certain generalization of conformal compactifications, and on the other hand, interesting variants on the classical singularity theorems by Hawking and Penrose.

References

O. Müller, arXiv.org: 1607.05036 (2016)