



GRAVITY: CHALLENGES BEYOND GENERAL RELATIVITY

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Developing a paradigm of non-singular black holes

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Black holes are arguably the most fascinating prediction of general relativity. These solutions of general relativity are singular and are therefore expected to be an approximation. One of the promises of quantum gravity is providing a complete and non-singular description of black holes. This complex task has been addressed by different groups using different bottom-up and top-down approaches and, while a definitive picture remains elusive, much has been learned thanks to these efforts. In this talk, I will summarize some of these results and discuss their implications for our understanding of the ultimate nature of black holes.

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