

Abstract for an Invited Paper
for the APR12 Meeting of
The American Physical Society

Higher dimensional gravity and black holes¹

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Gravity in higher dimensions exhibits new, and perhaps unexpected, phenomena when confronting with intuition gained in 4 dimensions. Its understanding however is of key importance due to its role in trans-Planckian and gauge-gravity dualities in scenarios involving black holes. In this talk we present an overview of efforts to achieve this understanding in strongly gravitating scenarios through numerical efforts. In particular we discuss some relevant examples, immediate challenges and opportunities for near future endeavors.

¹Partial support from CIFAR, NSERC and Perimeter Institute.