Abstract Submitted
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AdS Gravity Coupled to Massive Scalar Fields HANS BANTILAN, Princeton University — I will discuss ongoing work in simulating asymptotically anti-de Sitter spacetimes with massive scalar field matter content. One motivation of this study lies squarely within the realm of pure gravity, in the possibility of constructing novel black hole solutions via the collapse of scalars with specifically chosen potentials. An even more tantalizing reason for studying these gravitating systems lies in a potential application to condensed matter physics, in modeling quenched quantum systems.

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