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The scale(s) of quantum gravity and integrable black holes

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It is often assumed that quantum gravity belongs at the Planck scale, but a possibly much larger size for the ground state emerges in the (non-perturbative) quantisation of the Oppenheimer-Snyder model of dust collapse that naturally hints at Bekenstein's area law. The effective geometry for such quantum black holes can then be obtained which describe integrable singularities without inner horizons.

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