

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

NON-COLLAPSING DEGENERATIONS OF GRAVITATIONAL INSTANTONS.

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Abstract: Gravitational instantons are noncompact hyperkahler 4-manifolds with L^2 curvature. Historically, they were self dual (or anti self-dual) vacuum solutions to Einstein's field equations. In this talk, I will discuss joint work with Yu-Shen Lin and Xuwen Zhu (Northeastern University) about noncollapsing limits of metrics on these instantons, which provide a partial compactification to the moduli space of metrics on instantons.

See <http://math.bu.edu/research/geom/seminar.html> or contact Siu-Cheong Lau (scollouis@bu.edu) or Brian Williams (bwill22@bu.edu) for more information.