

## **Rotating and non rotating, non singular compact objects**

I will discuss the physics of non singular compact objects which is primarily made up of gravitons, and it is as compact as that of the Buchdahl star. I will discuss how to construct such a system within higher derivative theories of gravity which incorporates nonlocal effects at the level of gravitational interactions. I will construct in fact both static and rotating solutions in this regard and discuss various observational consequences.

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