

## **Gonzalo J. Olmo: Black holes, geons, and metric-affine gravity.**

*Wednesday 28 October 2015 12:30 (30 minutes)*

Using exactly solvable models, it will be shown that black hole singularities in different electrically charged configurations can be cured. Our solutions describe black hole space-times with a wormhole giving structure to the otherwise point-like singularity. This type of solutions can be naturally interpreted as geons in Wheeler's sense. We show that geodesic completeness is satisfied despite the existence of curvature divergences at the wormhole throat.