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## Astrophysical constraints on dark matter

*Wednesday 12 December 2018 16:30 (50 minutes)*

I will overview what astrophysical observations tell us about the properties of dark matter with particular focus on Primordial Black Holes (PBHs), black holes formed in the early Universe. The recent discovery of gravitational waves from mergers of  $\sim 10$  Solar mass black hole binaries has (along with the lack of signal in WIMP detection experiments) led to increased interest in PBHs as a dark matter candidate. I will discuss the limits on their abundance, with particular emphasis on microlensing and dynamical constraints in the Solar mass region.

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