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## **Astronomical constraints on dark matter in the local environment**

*Tuesday 2 December 2025 12:10 (30 minutes)*

The spatial and velocity distributions of dark matter in the local environment are a crucial input to searches for particle dark matter, for both direct experiments based on Earth, and astronomical observations of the galactic centre. Despite this, there are considerable uncertainties that directly impact the current and future sensitivity to particle dark matter signals. I will summarise what constraints astronomical observations currently place on the local dark matter population.

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