



TITLE

Experimental searches for Dark Matter

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Teaching staff

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Program of the course:

- Observational evidence for Dark Matter
 - Introduction to Dark Matter candidates
 - Thermal production in the standard cosmology
 - Direct detection of WIMPs: principles, detectors and experimental techniques
 - Dark Matter searches at colliders and fixed target experiments
 - Introduction to the Dark Photon model and experimental techniques for the “visible decay” search
 - Search for invisible decays of Dark Photons: missing mass and missing momentum experiments
 - Beam-dump experiments for light Dark Matter search
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Bibliography:

- G. Bertone, Particle Dark Matter: Observations, Models and Searches Cambridge University Press 2010
- US Cosmic Visions: New Ideas in Dark Matter 2017, arXiv:1707.04591