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## State of the Art of Searches for Dark Matter

*Wednesday 18 June 2014 09:30 (30 minutes)*

Astronomical observations of galaxies, clusters of galaxies and studies of the large scale structure of the Universe show convincing evidence of the existence of dark matter (DM). However our understanding of its nature and its non-gravitational properties is still lacking. We will review the basic properties of dark matter, discuss the strategies employed for its observation and give an overview of the state of the art of ongoing direct and indirect dark matter experiments. Particular emphasis will be given to the discussion of recent intriguing results in this vibrant field of research.

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**Session Classification:** (W1-7) Cosmic Frontier: Dark Matter - PPD / Frontière cosmique: matière sombre - PPD

**Track Classification:** Particle Physics / Physique des particules (PPD)