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## Status of Dark Matter Theories

*Monday 15 June 2015 15:45 (30 minutes)*

The existence of dark matter is a prominent puzzle in model physics, and it strongly motivates new particle physics beyond the standard model. I will review theoretical candidates for dark matter as proposed in the literature, and their status in light of recent experimental searches. I will also discuss new possibilities of dark matter theories and related research avenues.

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**Session Classification:** M2-7 Cosmic frontier: Dark matter I (PPD-DTP) / Frontière cosmique: matière sombre I (PPD-DPT)

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