

## Radio signals of particle dark matter

*jeudi 21 juillet 2011 17:00 (15 minutes)*

In most of particle dark matter (DM) models, the DM candidate injects sizable fluxes of high-energy electrons and positrons through its annihilations or decays. Emitted in regions with magnetic field, they in turn give rise to a synchrotron radiation, which typically covers radio and infrared bands. We discuss the possibility of detecting signatures of Galactic and extra-galactic DM in the isotropic total intensity and small-scale anisotropies of the radio background.

**Auteur principal:** Dr REGIS, Marco (University of Turin and INFN)

**Orateur:** Dr REGIS, Marco (University of Turin and INFN)

**Classification de Session:** Astroparticle Physics

**Classification de thématique:** Astroparticle Physics