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Higgs in Space

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In some classes of WIMP models, the Higgs boson could be copiously produced in association with a photon from dark matter annihilations in the center of our galaxy. The resulting photon spectrum possesses a line whose energy reflects the mass of the Higgs and of the WIMP and whose intensity depends on the WIMP spin and statistics. I will discuss how gamma-ray telescopes such as Fermi could provide information on the Higgs and dark matter complementary to that obtained at the LHC.

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Classification de Session: Dark Matter, Astroparticles, Axions

Classification de thématique: Theory