# SEMPARIS – Séminaires en région parisienne

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## Particle Physics at LPTHE

**Mardi 14 Mai 2019, 15 :00**
LPTHE, library
Domaines : hep-ph

Titre : *Searching for Dark Matter Interactions in Cosmology*

Orateur : **Kimberly Boddy ( John Hopkins )**

Résumé : *There is a substantial effort in the physics community to search for dark matter interactions with the Standard Model of particle physics. Collisions between dark matter particles and baryons exchange heat and momentum in the early Universe, enabling a search for dark matter interactions using cosmological observations in a parameter space that is complementary to that of direct detection. In this talk, I will describe the effects of scattering in cosmology and show constraints using Planck 2015 data and SDSS-identified satellites.*