

# SEMPARIS – Séminaires en région parisienne

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## Particle Theory Seminar of LPT Orsay

**Jeudi 25 Octobre 2018, 16 :00**

LPT, 114

Domaines : hep-ph

Titre : *Listening for Invisible Axions*

Orateur : **Camila Machado** ( Mainz U. )

Résumé : *Conventional approaches to probing axions and axion-like particles (ALPs) typically rely on a coupling to photons. If this coupling is extremely weak, ALPs are effectively decoupled from the Standard Model. However, ALPs may also couple to the dark photon of a hidden sector  $U(1)$ . We show that it is possible to probe such models via chiral gravitational waves sourced by an exponential production of the dark vector shortly after the ALP begins to oscillate.*

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