SEMPARIS – Séminaires en région parisienne

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Particle Physics at LPTHE

Mardi 27 Fevrier 2024, 14 :00
LPTHE, Library and Zoom (link in the comments)
Domaines : hep-ph

Titre : *Inflationary and Post-Inflationary Scalar Dark Matter Production*

Orateur : **Mathias Pierre (DESY)**

Résumé : *Dark matter is one of the great mysteries of modern physics. In addition to its precise nature, its production mechanism remains unknown. In this talk I will discuss the possibility of producing scalar dark matter candidates during and after cosmic inflation. By describing the transition from an inflationary epoch to a late-time cosmology, I will describe how the dynamics of the universe can affect the production of dark matter and leave an imprint on cosmology. I will discuss the associated constraints, phenomenological consequences, and possible further developments.*