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Particle Physics in Paris

Mardi 14 Juin 2022, 14 :00
LPTHE, Library, 4th floor, and online at https ://ijclab.zoom.us/j/94900481972
Domaines : astro-ph—hep-ph—hep-th

Titre : *Primordial black holes as dark matter*

Orateur : **Alexander Kusenko (UCLA)**

Résumé : *Recently discovered new mechanisms for primordial black hole (PBH) formation make them a plausible candidate for dark matter in a broad range of models. For example, PBHs appear to be a generic dark matter candidate in supersymmetric models. Another example : fermions provided with Yukawa interactions can form PBH during the radiation dominated era or matter dominated era. I will review the new formation scenarios for PBH, as well as the astrophysical consequences and the ongoing search for PBH dark matter.*
