

Publications Related to This Thesis

[1]: M. Cirelli, Y. Gouttenoire, K. Petraki and F. Sala, *Homeopathic Dark Matter, or how diluted heavy substances produce high energy cosmic rays*, *JCAP* **02** (2019) 014, [1811.03608]

[2]: I. Baldes, Y. Gouttenoire and F. Sala, *String Fragmentation in Supercooled Confinement and Implications for Dark Matter*, *JHEP* **04** (2021) 278, [2007.08440]

[3]: Y. Gouttenoire, G. Servant and P. Simakachorn, *Beyond the Standard Models with Cosmic Strings*, *JCAP* **07** (2020) 032, [1912.02569]

[4]: Y. Gouttenoire, G. Servant and P. Simakachorn, *BSM with Cosmic Strings: Heavy, up to EeV mass, Unstable Particles*, *JCAP* **07** (2020) 016, [1912.03245]

Submitted after the completion of the first version of this thesis but directly linked to [2] and to the material discussed in this manuscript:

[5]: I. Baldes, Y. Gouttenoire, F. Sala and G. Servant, *Supercool Composite Dark Matter beyond 100 TeV*, 2110.13926