

Theorie-Palaver

Nov. 14, 2023 at 2 p.m.
Lorentz room (Staudingerweg 7, 5th floor)

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Fun with non-Abelian dark sectors

Taking axion inflation as an example, we study the evolution of a non-Abelian dark sector coupled to the inflaton for different choices of the confinement scale. Gravitational wave signals could be in principle generated due to a confinement phase transition or fluctuations in the thermal plasma, however, these signals might be strongly suppressed due to the presence of an early matter-dominated era. We also study the reheating of Standard Model fields and explore the possibility of glueball dark matter within this scenario.