

Seminário, Quarta-feira 24/08/2022 16:00h

Local: Auditório: Méson Pi – DRCC

Johannes Herms, Heidelberg, Max Planck Inst.

Title: Light thermal Dark Matter enabled by a second Higgs

Thermal relic particles are a prime Dark Matter candidate. As searches for electroweak-scale WIMPs are well under way, lighter sub-GeV particles have become a focus of attention. I will introduce the basic requirements for light thermal relic dark matter, before presenting a minimal UV-complete model. The latter is based on the realisation that adding a second Higgs doublet to the Standard Model allows for a light scalar that can mediate between dark matter and the visible world.