

Feebly Interacting Particles in the Early Universe

Tuesday 1 April 2025 15:15 (30 minutes)

Feebly interacting particles (FIPs) have gained attention as a compelling alternative to WIMP dark matter. In this talk, I will present recent advancements in the precise determination of FIP production rates from a thermal plasma, emphasizing the role of finite-temperature effects. I will also discuss how experimental searches, including long-lived particle and direct detection experiments, can probe FIPs and potentially reveal insights into early universe phenomena such as inflationary reheating.

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Session Classification: Invited Topical Talks 2 / Eingeladene Vorträge 2