

Searching for New Physics with Stars, Near and Far

Monday 7 July 2025 11:30 (30 minutes)

Stars are large, plentiful and the Universe provides them to us for free. They provide us with unique laboratories to test fundamental physics at high densities and temperatures, and their large volumes potentially give us access to very rare processes. While stars have been used for decades to probe fundamental physics, they still offer new exciting avenues to search for beyond-the-standard-model physics. I will discuss some recent work including possible hints of dark matter, but also subtle caveats when it comes to applying particle physics to astronomical observables.

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Session Classification: Plenary