



## PHYSIKALISCHES KOLLOQUIUM

AM 23. JUNI 2025 UM 16 UHR C.T. IM GROBEN HÖRSAAL



## STARS AS LABORATORIES FOR NEW PARTICLES

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Stars in general - and collapsing or compact stars in particular - are powerful factories for feebly interacting low-mass particles, notably neutrinos and the hypothetical axions, which are well-motivated dark matter candidates. These particle fluxes can be studied experimentally, especially those from the Sun, the brightest particle source in the sky. Additionally, one can investigate the more indirect effects of particle emission on the observed properties of various types of stars. This traditional area of astrophysical particle bounds and searches has seen a vigorous revival in recent years, with numerous new ideas and developments. This talk will review some of the classic results and provide an update on recent advances in the field.

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