

Poster

Splinter HotStars

STELLAR LABORATORIES: HIGH-PRECISION ATOMIC PHYSICS WITH
STIS

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Stellar atmospheres are prime laboratories to determine atomic properties of highly ionized species. Since reliable opacities are crucial ingredients of many astrophysical simulations and a detailed comparison of iron-group oscillator strengths is still outstanding, we used the Space Telescope Imaging Spectrograph to measure high-resolution spectra of three hot subdwarf stars that exhibit extremely high iron-group abundances. These allow us to identify even very weak spectral lines. The predicted relative strengths of the identified lines are compared with the observations to judge the quality of Kurucz's line data and to determine correction factors for abundance determinations of the respective elements.