



Contribution ID: 391

Type: **Poster**

【3006】 CRIRES high-resolution near-infrared spectroscopy of diffuse interstellar bands

Tuesday 31 August 2021 19:05 (1 minute)

We present results from a pilot study at high spectral resolution ($R=100,000$) of diffuse interstellar bands (DIBs) in the near-infrared J-band with VLT/CRIRES. Several so far unknown near-IR DIBs are detected. The membership to DIB families is investigated, as indication of the origin from common carriers. The DIB sightlines are characterized to unprecedented accuracy and precision due to the availability of quantitative analyses of the illuminating background stars. Peculiarities of the interstellar extinction law along these sightlines are studied.

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Session Classification: Poster Session

Track Classification: Nuclear, Particle- and Astrophysics (FAKT - TASK)