



Contribution ID: 80

Type: Talk

【343】 POLAR-2: Towards a Large Scale Gamma-ray Polarimetry

Wednesday, September 1, 2021 4:00 PM (15 minutes)

Gamma-ray bursts have been studied for over 50 years; primarily through their spectral and temporal profiles. However, their physics is sometimes impossible to answer without the addition of polarization information. From recent instrument observations, it was understood that in combination with a long mission, detailed temporal and energy resolved analyses are necessary to further constrain theoretical models.

POLAR-2, manifested for launch in 2024, includes a polarimeter and spectrometer and aims to address these bottlenecks such that 50 GRBs are measured with equal or better quality compared to the best seen by its predecessor; POLAR. Its respective design, anticipated scientific performance and first results of a polarimeter module will be discussed.

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Session Classification: Nuclear, Particle- & Astrophysics

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