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The Solar Flare Catalog with GECAM

The GECAM (Gravitational Wave High-energy Electromagnetic Counterpart All-sky Monitor) mission, launched at the end of 2021, has significantly advanced our ability to detect and analyze high-energy astrophysical phenomena, particularly solar flares. This proceeding presents a comprehensive source catalog of solar flares observed by GECAM during near half a solar cycle, the key observational parameters and characteristics that define these energetic events. The catalog includes detailed information on flare timing, location, energy spectra, and temporal evolution, providing a valuable resource for understanding the mechanisms driving solar activity. By leveraging GECAM's unique capabilities, we identify and classify a diverse range of flare events, shedding light on their underlying physics and their potential impact on space weather.

Collaboration(s)

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