

3rd Astro-COLIBRI multi-messenger astrophysics workshop



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GCN

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General Coordinates Network (GCN): NASA's Next Generation Time-Domain and Multimessenger Astronomy Alert SystemA

The General Coordinates Network (GCN) is a public collaboration platform run by NASA for the astronomy research community to share alerts and rapid communications about high-energy, multimessenger, and transient phenomena. Over the past 30 years, GCN has helped enable many seminal advances by disseminating observations, quantitative near-term predictions, requests for follow-up observations, and observing plans. Recently, GCN has introduced the Unified Schema, which acts as the foundation for the new GCN Notices that are exclusively streamed through Kafka and employ a JSON format for easy machine readability and accessibility through an open-source repository. In this talk, we will introduce (1) how to produce the new GCN Notices, inclusion of new missions BurstCube, Einstein Probe, and SVOM, (2) Astro Flavored Markdown for enriching GCN Circulars and astronomical bulletins, (3) revisions and errata for GCN Circulars and (4) application of large-language model for information extraction from the Circulars

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Classification de Session: Platforms