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The Multi-Messenger Astronomy Followup Ecosystem

lundi 16 septembre 2024 11:00 (45 minutes)

The Multi-Messenger Astrophysics (MMA) era has necessitated that we coordinate the community at an entirely new level. Many of these events (e.g., gravitational wave and neutrino sources) are not localized enough to unambiguously identify the electromagnetic counterpart. Instead, large-scale searches are necessary to localize the source to combine the information from the different astrophysical messengers from the event. In addition, these events are often short-lived transients requiring rapid discovery and characterization. The community has developed a plethora of automated tools to enable coordination and rapid this need, from alert brokers to data reduction pipelines, to Target and Observation Management (TOM) systems, to messaging systems to report observational results back to the community. I will present an overview of these tools, walking through a fiducial workflow once a new MMA event is discovered. I will also suggest places where tools can interoperate and how we can lower the barrier to entry for users to adopt this workflow. As a community, we can no longer afford to not coordinate: it behooves us to ensure that as much of the community can adopt these new tools as possible.

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Classification de Session: Introduction