



Transient Handler for the LST-1 Prototype

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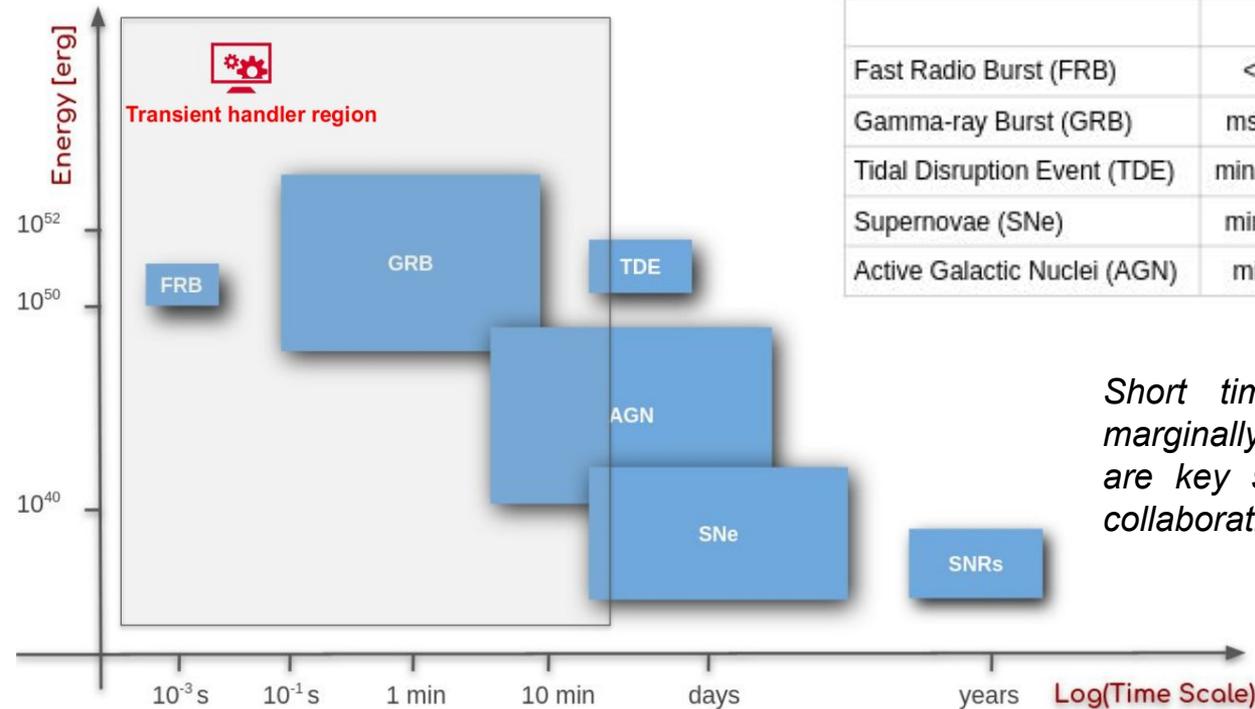
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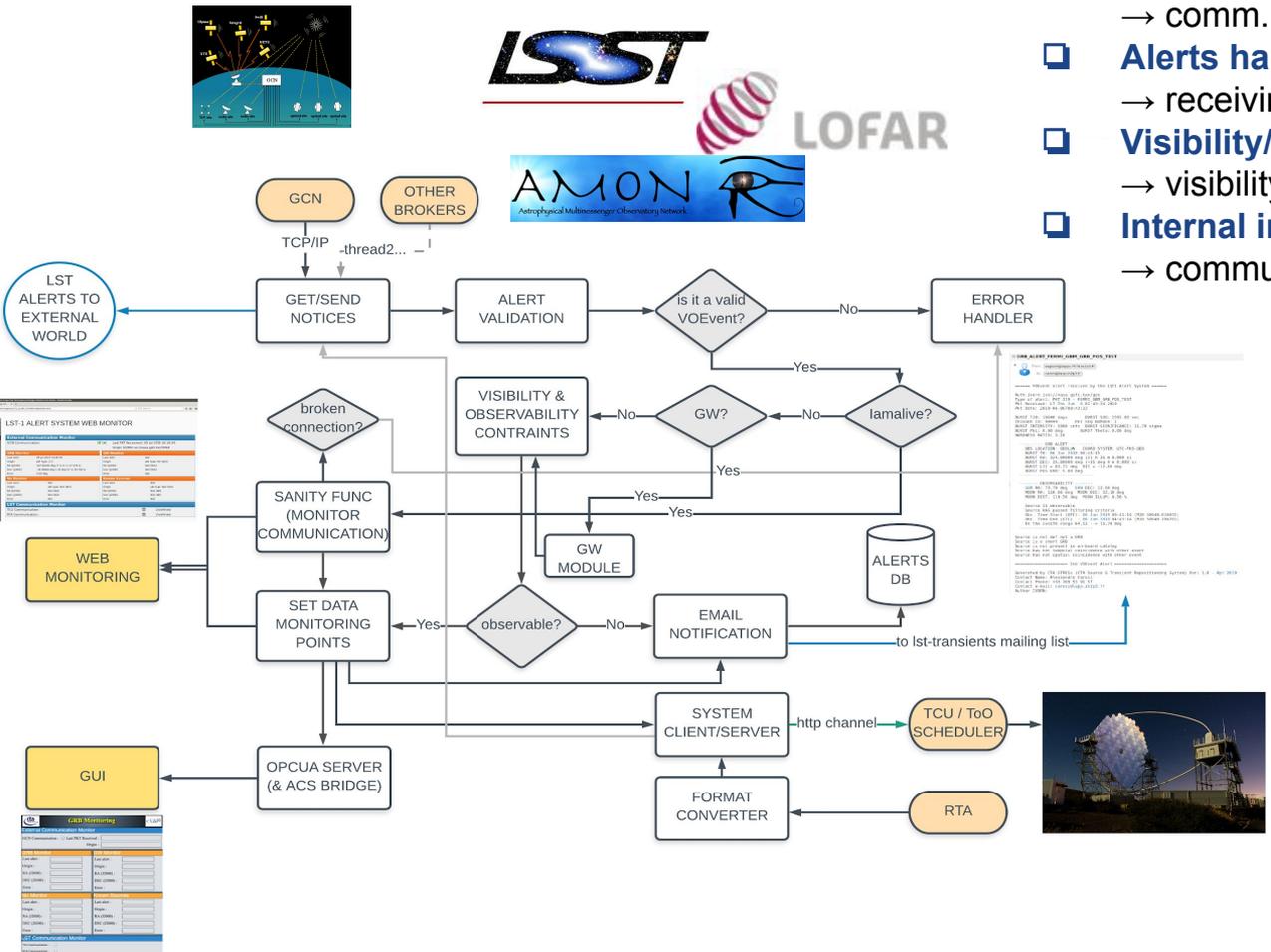
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Source	Duration	Energy Release [erg]	Energy Source
Fast Radio Burst (FRB)	<~msec	$\sim 10^{50}$	B field (?)
Gamma-ray Burst (GRB)	msec - min	$\sim 10^{49} - 10^{53}$	Gravity
Tidal Disruption Event (TDE)	min - months	$\sim 10^{52}$	Gravity
Supernovae (SNe)	min - years	$\sim 10^{44}$	Gravity
Active Galactic Nuclei (AGN)	min -days	$\sim 10^{43}$ erg/s	Gravity

Short time-scale transients represent a still marginally explored science case although they are key science targets for both current IACT collaborations and for CTA.

Transient Handler for the LST-1 Prototype



- ❑ **External communication handling**
→ comm. protocols, connection(s) with brokers...
- ❑ **Alerts handling**
→ receiving, parsing, archiving...
- ❑ **Visibility/filtering**
→ visibility evaluation, obs constrains...
- ❑ **Internal interfaces handling**
→ communication with TCU/CC/scheduler, RTA...

More info on the poster!

