The CTA Multi-messenger and multi-wavelength program

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for the CTA consortium

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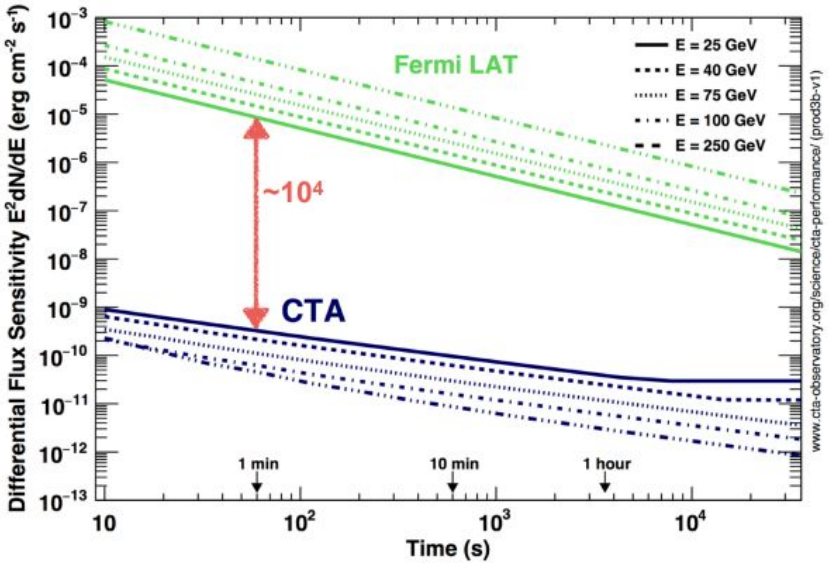
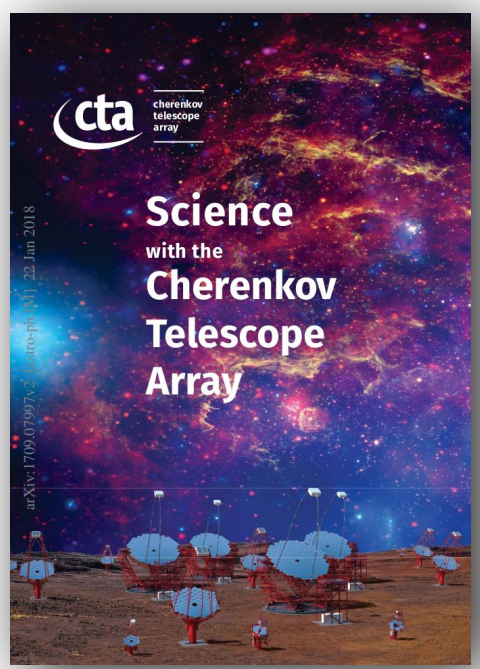
*Transients are integral part of the CTA "**Key Science Projects**". A dedicated Science Working Group (Transient and MWL SWG) is in place to prepare first observations (react to fast ToO, definition of observation program, preparation of science analysis, etc..) and setup the needed multi wavelength/multimessenger connections and synergies with external facilities.*



www.cta-observatory.org



https://arxiv.org/pdf/1709.07997.pdf

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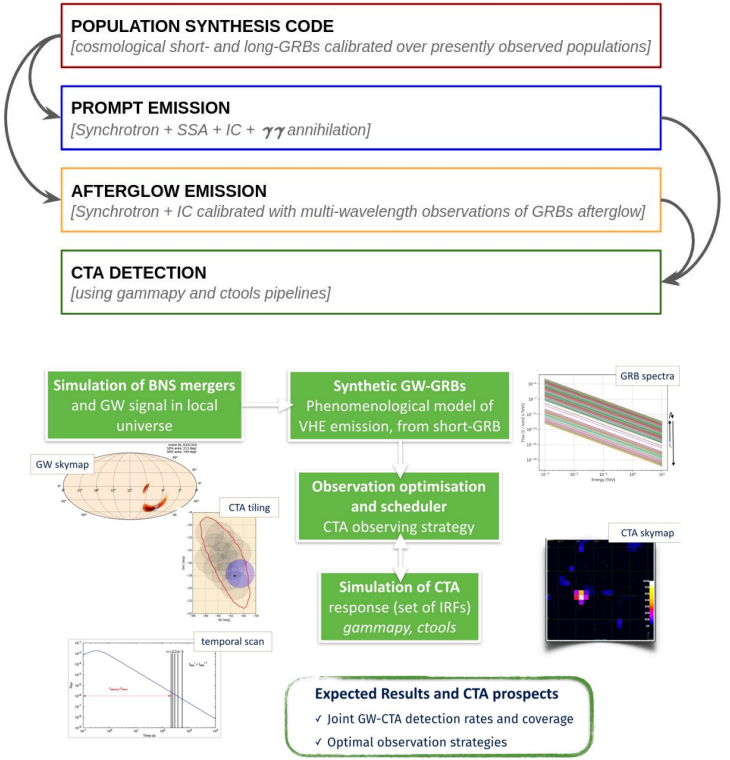
Each one of these topics is covered by a dedicated ***consortium publication***

- **Gamma-ray bursts (GRBs)**, based on external alerts from monitoring facilities.
- **Galactic transients**, based on external alerts from monitoring facilities. These include flares from pulsar wind nebulae (PWN), jet ejection events from X-ray binaries, novae, etc.
- **High-energy neutrino transients**, based on alerts from neutrino observatories.
- **GW transients**, based on alerts from GW observatories. Follow-up by CTA with suitable strategies can play a unique and essential role for identifying and understanding their sources.



More info on the poster!