The Best Case Scenario: Towards Prompt Arcminute Localization of a GW source Aaron Tohuvavohu on behalf of the BAT-GUANO team

Want

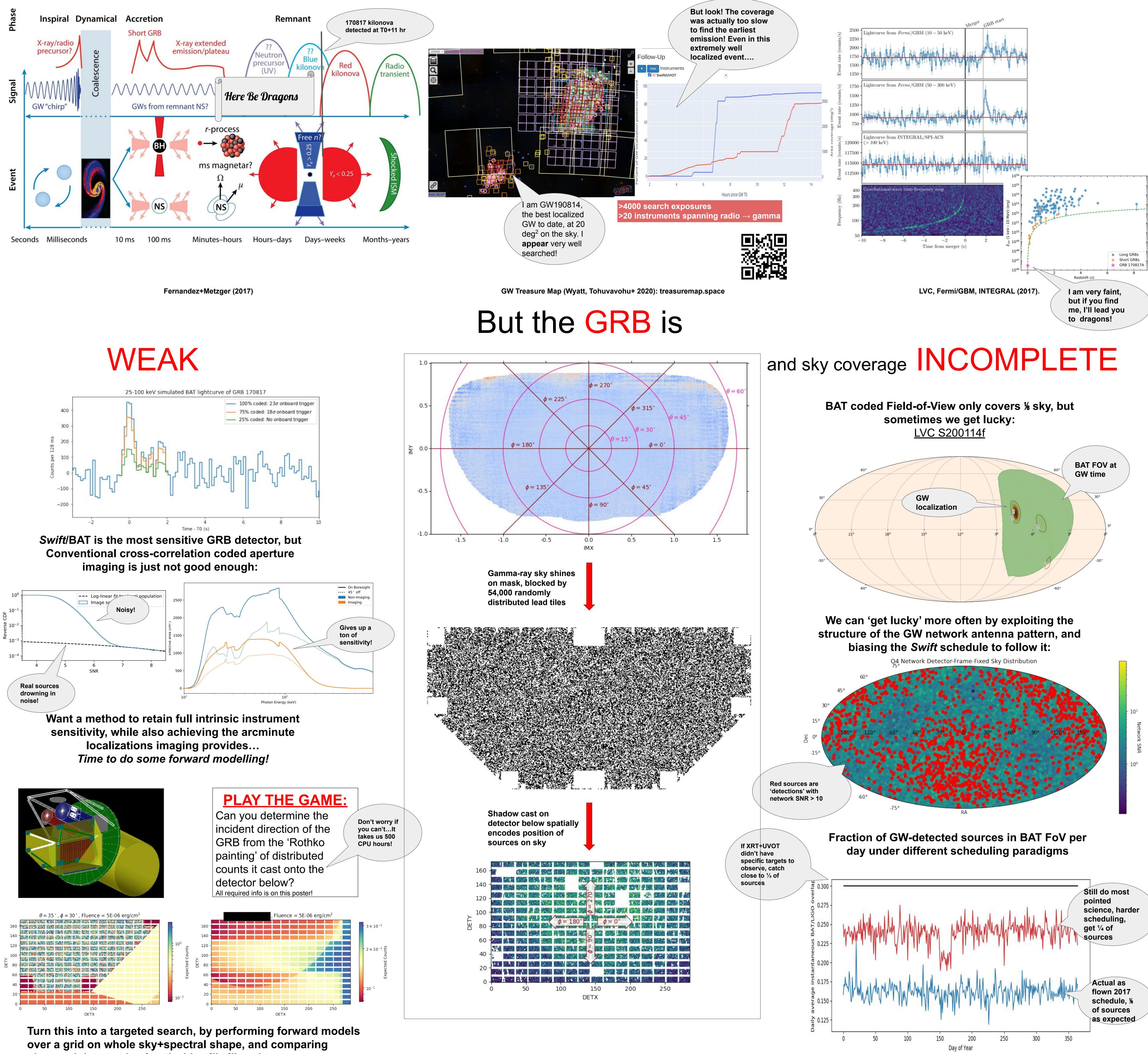
Observational access to early-time post merger environment!

Problem

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Solution (?)
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GW localizations LARGE, wide-field tiling SLOW, optical DELAYED

Use the earliest emission (gamma-rays) to localize

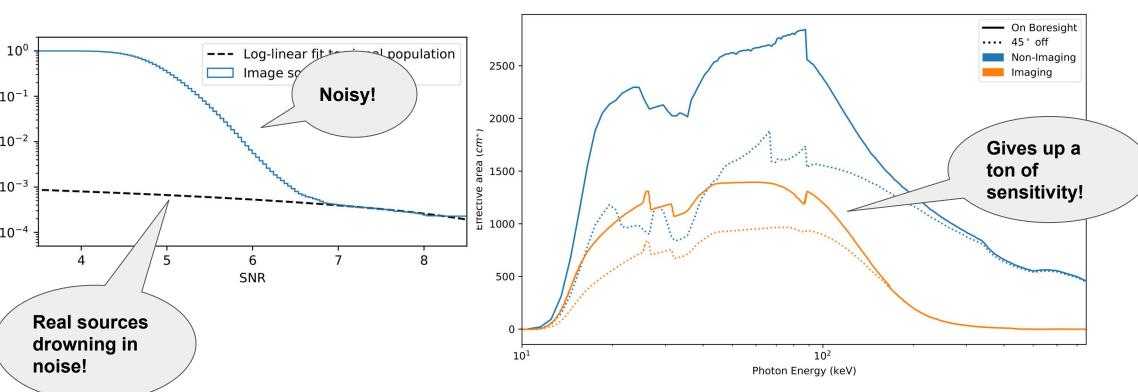


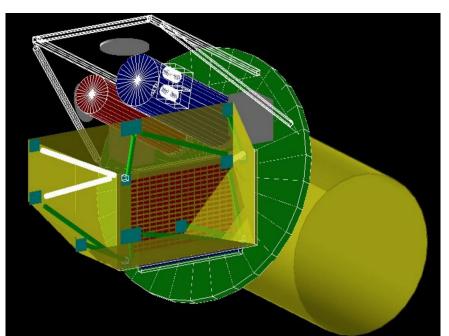
Come find me! Let's talk about operating space

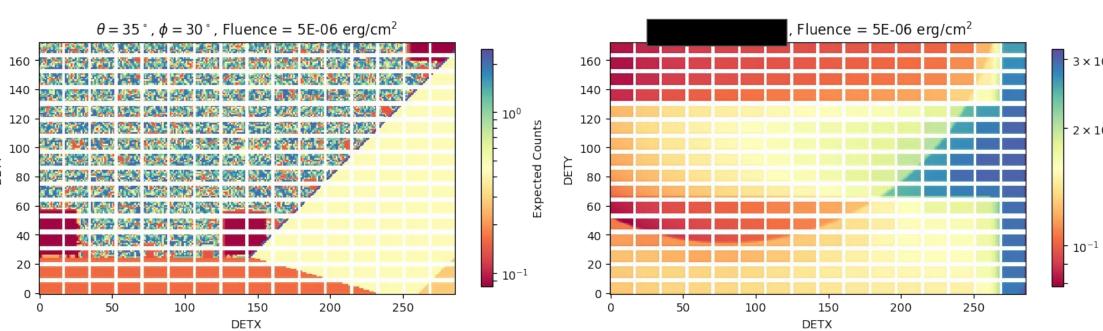
Scenario!

Also, data analysis.

telescopes, building space telescopes, and (not)

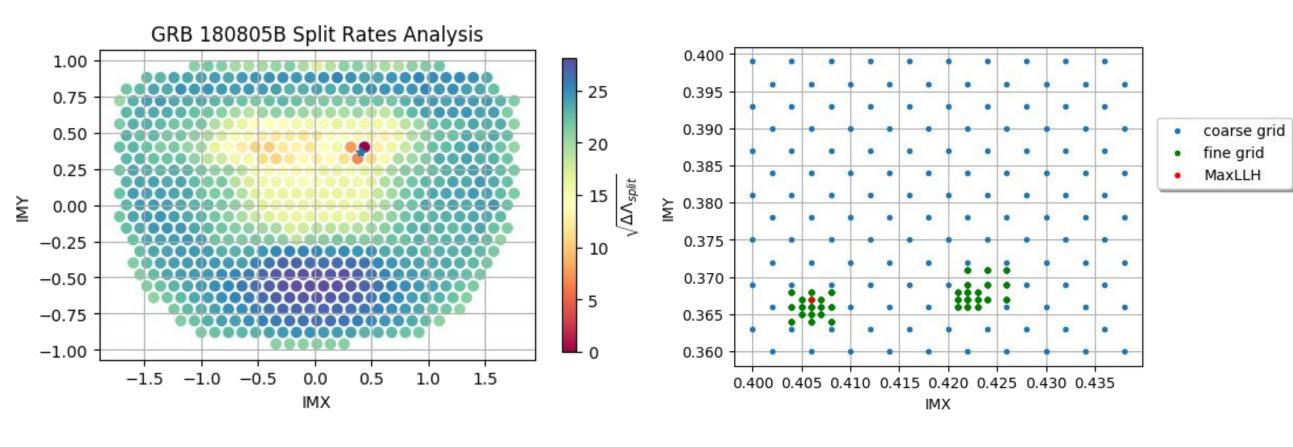




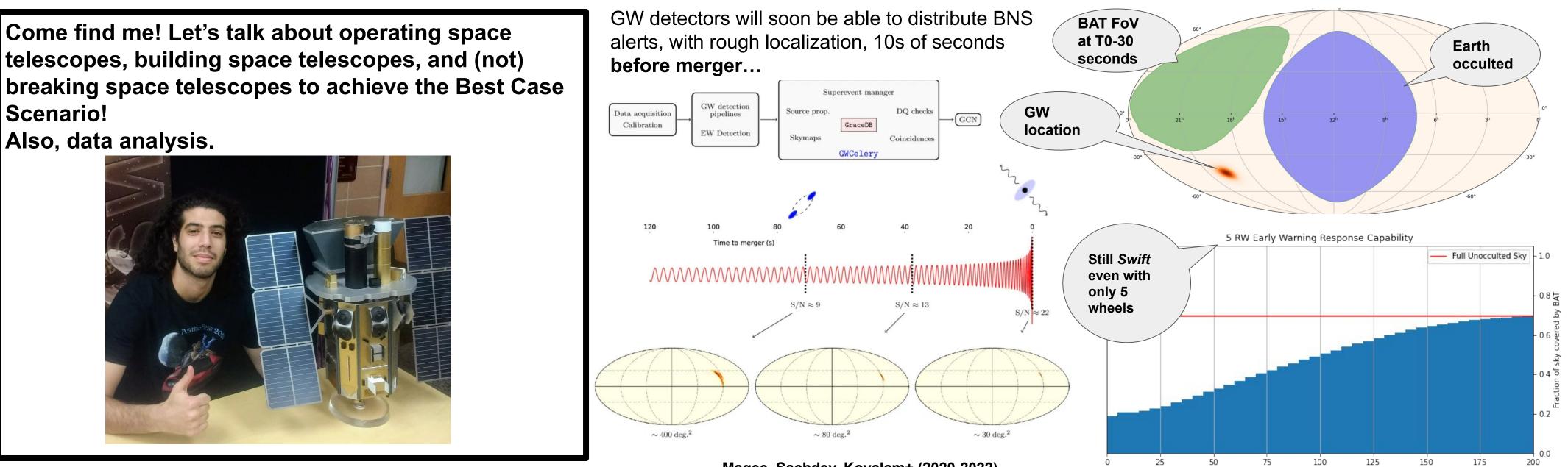


observed data to simulated with a likelihood test:

Non-Imaging Transient Reconstruction and TEmporal Search (NITRATES) arXiv:2111.01769 27 extra arcmin localized GRBs in 2 years



But sometimes you have to be ready to act within seconds:



Slew Time (s)

Magee, Sachdev, Kovalam+ (2020-2022)