

Transients

Instruments

- ASKAP & MWA to find the diamonds, uGMRT to cut and polish them
 - late-time synchrotron emission (SNe from FRBs?)
 - High sensitivity HI studies/kinematics in burst region
 - *positions* and *low-frequency* properties of bright/frequent ASKAP repeaters
- Common methods for RFI mitigation in CRAFT (especially for coherent upgrade) and uGMRT transient detection pipeline
- GMRT excellent high-sensitivity followup of slow transients (e.g. VAST)
 - **Gravitational wave** events: combined uGMRT (radio) bands, GIT (optical) and AstroSAT (high energy) + ASKAP & MWA & ATCA (for radio bands below and above uGMRT)
 - **Flare stars, X-ray binaries, radio supernova, orphan afterglows:** VAST → uGMRT follow up across 150-1500 GHz, and determine the nature of the transients. X-ray binaries can be followed via AstroSAT.
- Future participation in MWA-III transients?

People

- Channels of collaboration already open
 - Kanekar: CRAFT continuum and spectral line followup
 - Roy: time-domain followup and RFI mitigation