



Summary of Cross-Disciplinary Time Domain Break-Out Session

Friday Dec 07 2018

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Time Domain is Not a Science Case

- Time domain is just a tool (e.g., imaging, spectroscopy, polarimetry)
- There is already community energy regarding both time domain and cross-disciplinary science:
 - Writing cross-disciplinary science case is extremely time intensive and requires a lot of knowledge from a broad range of experts
 - Do not repeat the science case white papers that are already being written and/or are science cases already in the National Academies Reports
- Better Question: How can the archives and data services best support the community from the point of view of cross-disciplinary science?

Proposed White Paper

- Address what the archives/data servers need to do in order to enable cross disciplinary and time domain based science
 - Characterize dataset systematics
 - Data modeling to priors and posterior distributions
 - Enable use of Modern statistics and informatics
- Connect to previously mentioned science cases already expanded upon by the community in other ways (e.g., Academy reports, white papers)
 - Planetary systems: Solar and Exoplanet
 - Accretion disk physics across all scales: Planetary formation all the way through AGN
- Science WP vs a Follow-on technical WP ???