

Open Problems

- How well can we predict the spectral shape and temporal modulation of the galactic confusion noise from the resolved binaries?
- What happens if we loose a link or an arm?
- How well can model the instrument noise?
 - Possible additional components beyond acceleration and optical path noise (scattered light, tilt-length...)?
 - How white can we expect the acceleration and position noise to be?
 - Do we need an explicit a signal nulling channel to confidently infer the noise?
- Could residuals from the global fit be mistaken for a stochastic signal?
 - How could we check to see if this was happening?
 - How large could the residual signal be?
- What is the best way to include stochastic background modeling in the global fit?

Roadmap

- Need to go beyond simple scoping-out style studies and try extracting stochastic backgrounds in an LDC Global Fit challenge
- Better understanding on the noise combinations that are constrained by signal insensitive channels
- Develop Bayesian Hierarchical Modeling from agnostic (e.g. spline) reconstructions provided by the Global Fit and specific models
- Include non-stationarities in the galactic confusions and instrument noise models
- 与中国人交谈