









LISA DATA CHALLENGE

Waveform codes

Noise model

User inputs:

- Binary object masses
- Frequency or orbital separation
- Luminosity distance or redshift
- Sky location or favorable/ unfavorable configuration

Tool outputs:

- SNR value
- Signal amplitude + noise sensitivity vs freq.
- SNR vs time plot
- Upcoming: Estimates of parameter precisions









Particularities of CLHT:

- Directly works in TDI domain (this is what we will measure): plots GW amplitude spectrum and integrated noise level
- No sky-averaged answers: possibility to give outputs for chosen sky location, or favorable/ unfavorable configurations (intervals)

Public URL in construction:

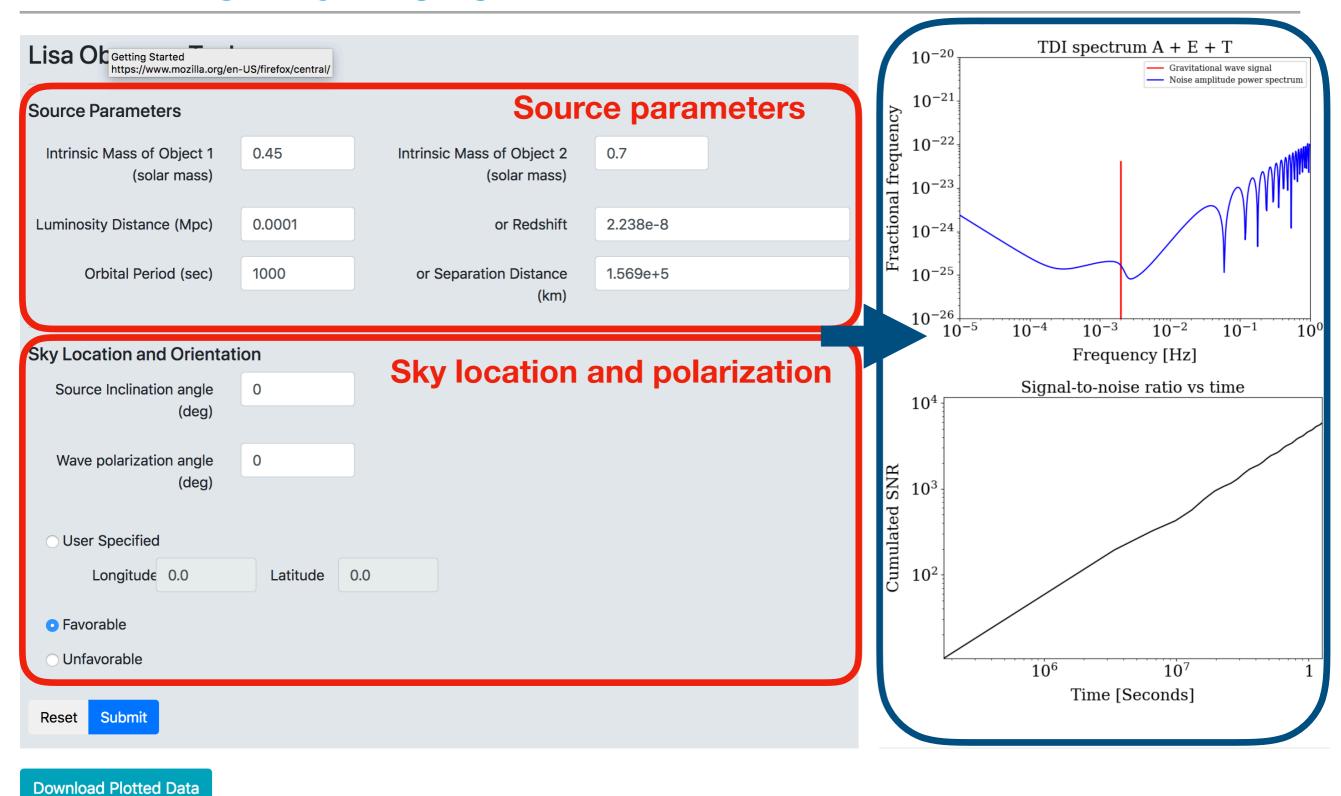
- https://heasarc.gsfc.nasa.gov/wsgi-scripts/lmmcdona/start.wsgi/ (for now, will be changed)
- Needs to be beta-tested

Coming soon:

- Estimates of parameter uncertainties
- EMRI sources
- Interactive plotting

EXAMPLE FOR A GALACTIC BINARY

Results



Quentin Baghi - AAS LISA Workshop - January 6th 2019 - Seattle, Washington

EXAMPLE FOR A MASSIVE BLACK HOLE BINARY

