

## **Incorporating waveform uncertainty into modeling and inference of gravitational waves**

Michael Pürrer, MPI for Gravitational Physics (Albert Einstein Institute)

Potsdam-Golm I discuss how systematic errors in waveform models can affect parameter inference and how these errors can be incorporated into the waveform model construction. For models that include these errors one can marginalize the posterior distribution over these additional degrees of freedom. I demonstrate this for an aligned-spin effective-one-body model where the uncertainties are captured by an efficient Fourier domain GPR model.