Contribution ID: **9**   Type: **not specified**

TEOBResumS: efficient and accurate analytical waveform model for spin-aligned coalescing binaries

Tuesday, 26 February 2019 09:00 (40 minutes)

will review the status of TEOBResumS, a freely available analytical waveform model, based on the effective one body approach (improved by numerical relativity simulations), to generate highly-accurate (and computationally inexpensive) time-domain (multipolar) waveforms for spin-aligned coalescing binaries. The model includes tidal interaction as well as EOS-dependent self-spin couplings (at high order) and is viable for both coalescing black holes through merger and ringdown or neutron stars (as well as mixed binaries) up to merger. Implications for data-analysis and in particularly its use on GW170817 are explicitly discussed.

Presenter: NAGAR, Alessandro (IHES)