

Department of Physics - IIT-B
Department of Theoretical Physics - TIFR
Joint Cosmology and Particle Physics Seminar

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**Inferring the properties of astrophysical black holes from
gravitational wave observations**

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A304 TIFR

Binary black hole coalescences are among the prime sources of gravitational waves (GWs) for ground-based interferometric GW observatories like LIGO. Indeed, the first GW signal observed by LIGO was inferred to be produced by a black-hole coalescence event. These observations allow us to infer the masses and spins of the black holes, as well as some other properties of the binary. Combining the information from several such events might allow us to understand the astrophysical formation channels of such systems. I will talk about some work in this direction.

