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Observations of stellar-mass black holes with LISA

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Stellar-mass black hole binaries, like those currently being detected with the ground-based gravitational wave (GW) observatories LIGO and Virgo, are also an anticipated GW source in the Laser Interferometer Space Antenna (LISA) band.

LISA will observe them during the early inspiral stage of evolution; some of them will chirp through the LISA band and reappear some time later in the band of third generation ground-based GW detectors.

In this talk, we discuss LISA's ability to infer the parameters of those systems and the potential of such observation to inform us on putative deviations from General Relativity as well as the environment of the sources.

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