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Gravitational Lensing in Gravitational Waves - Virtual

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Like electromagnetic waves propagating in the universe, gravitational waves (GWs) can be gravitationally lensed by massive objects between the distant source and the observer. Consequently, considering all known types of lensing configurations—governed by not only the relative position of the source to the lens but the size, shape, and distribution of the lens mass—is possible for the gravitational lensing of GWs. In this talk, I briefly introduce my several recent/ongoing works from searching microlensed GWs to parameter estimation of strongly lensed GWs.

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Session Classification: Inflation / GW