

Audible Axions from NANOGrav to the lattice

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The dynamics of axions after inflation can give rise to an observable stochastic gravitational wave background. I will present new results for the GW spectrum from a lattice simulation of an axion-dark photon system in a radiation dominated universe, and furthermore show that this signal could explain the recently observed excess in the NANOGrav data.

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Session Classification: Inflationary Sources & PBH