Gravitational Wave Probes of Physics Beyond Standard Model 2

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Domain Walls Signatures

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Content :

Domain wall (DW) networks are interesting probes of new physics. They arise from the spontaneous breaking of any discrete symmetry and they have a strong impact on cosmology, producing loud gravitational wave (GW) signals and even primordial black holes. An important example of new physics leading to a long DW epoch is given by a class of well-motivated axion models. I will discuss their GW phenomenology, including a search for them using recent Pulsar Timing Array data from NANOGrav and IPTA.

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