## Kashiwa-no-ha Dark Matter and Cosmology Symposium (Satellite workshop of COSMO 2024)



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## Axion inflation with non-Abelian gauge fields

Thursday 31 October 2024 10:30 (30 minutes)

Currently, the search for primordial gravitational waves is largely focused on detecting the parity-odd polarization pattern in the Cosmic Microwave Background—the B-modes. Accurately interpreting B-mode measurements depends heavily on understanding their production mechanisms. A particularly compelling scenario involves gravitational wave generation through the interaction of axion with gauge fields. I will discuss recent advances in axion inflation incorporating non-Abelian gauge fields, highlighting primordial gravitational wave background signatures and implications for primordial magnetogenesis.

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**Session Classification:** Early Universe Cosmology

Track Classification: Early Universe Cosmology