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## Squeezed quantum states of axions

*Monday, 27 September 2021 14:00 (40 minutes)*

In this talk, I will discuss the production of axions from the vacuum caused by the expansion of the Universe. I will show the axions evolve as a squeezed state during inflation and become a highly entangled state. Such a quantum squeezed state of axions remains after horizon re-entry. I also discuss the observability of the quantum coherence of axions.

**Presenter:** KANNO, Sugumi

**Session Classification:** Monday PM

**Track Classification:** Invited