## KMI Colloquium

## **Cosmological Problems in Axion Models**



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## Abstract:

The axion is a Nambu-Goldstone boson which appears in Peccei-Quinn mechanism for solving the strong CP problem in QCD and it is a promising candidate for dark matter in the Universe. However, the axion has two serious cosmological problems, domain wall and isocurvature perturbation problems. In this talk I will explain these problems and their solutions.