

Dark Axion Portal

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The dark matter sector is mysterious. One possible scenario is the dark matter sector is basically separated from the visible sector and is made up of its own particle spectrum similar to the standard model. Here, the concept of the portal between the dark sector and the visible sector is important to investigate the dark sector. We will talk about the dark axion portal, which connects some hypothetical dark sector particles (axion and dark photon) to the standard model sector, and how we can use it to probe the dark sector.

Author: LEE, Hye-Sung (KAIST)

Presenter: LEE, Hye-Sung (KAIST)

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