

## Propsect of search for long-lived partner of dark matter in an extra U(1) model

*Tuesday, August 20, 2024 3:45 PM (2 hours)*

In a model of an extra U(1) charged scalar dark matter, the degenerated U(1) partner particle may be long lived. Such a long-lived particle may be discovered in future long-lived particle search such as MATHUSLA. We present a viable benchmark point in such models.

**Primary author:** SETO, Osamu (Hokkaido University)

**Co-author:** Prof. OKADA, Nobuchika

**Presenter:** SETO, Osamu (Hokkaido University)

**Session Classification:** ポスター 1