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Type: **Poster (in person)**

## Possible excess of the multi-lepton signal from dark Higgs

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Recently, CMS group shows the data of the multi-muon signals. Two years ago, possible excess of dimuon signal was reported in Moriond 2023. This year, four muon signal is reported in Moriond 2024. Both data indicates the excess level of  $2\sigma$ . It is possible that these excesses are from Hidden sector physics. We consider the way to account for the excesses by setting SM and 2 dark sector. In the future Higgs factory, our scenario is expected to be tested by the event reconstruction in clean environment.

### Apply for poster award

Yes

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**Session Classification:** Posters

**Track Classification:** Physics and Detector: BSM, Global Interpretations