

## **A Search for Decaying Dark Matter in Galaxy Clusters and Galaxies with IceCube**

*Minjin Jeong on behalf of the IceCube collaboration*

### **What this contribution is about:**

- We test decaying dark matter hypotheses using neutrinos.

### **Why this work is relevant:**

- The high-energy astrophysical neutrino data recorded in IceCube allow us to probe heavy dark matter hypotheses using neutrinos.
- This is the first search for decaying dark matter in galaxy clusters and galaxies with IceCube.

### **What has been done:**

- We selected targets and calculated the sensitivities of the analysis, for two different dark matter decay channels.

### **Result:**

- The sensitivities are competitive with the observed limits from other experiments.