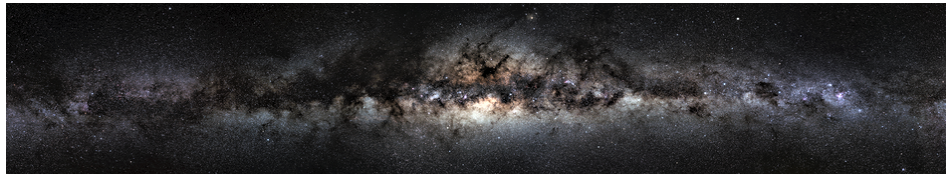


# Dark Sectors of Astroparticle Physics (AstroDark-2021): Axions, Neutrinos, Black Holes and Gravitational Waves



Contribution ID: 16

Type: **not specified**

## Dark Matter and Line Intensity Mapping

*Friday, 10 December 2021 08:40 (40 minutes)*

Line intensity mapping (LIM) is a rapidly developing new technique to study astrophysics and cosmology. With LIM, the luminosity density of a given atomic/molecular emission line is mapped in a three-dimensional volume. I will discuss how this technique can be used to determine the distribution of dark matter and to also probe specific dark-matter candidates. I will also describe how the measurements may complement other measurements that probe the expansion history, dark energy, and the Hubble tension.

**Primary author:** KAMIONKOWSKI, Marc (Johns Hopkins)

**Presenter:** KAMIONKOWSKI, Marc (Johns Hopkins)

**Session Classification:** Plenary