



ID de Contribution: 98

Type: **Oral presentation**

## **Subject : The Diffuse Galactic Light : Euclid looking through the interstellar veil.**

*mercredi 23 mars 2022 14:40 (10 minutes)*

This subject is about the astrophysics of the interstellar medium. In this presentation I will outline the Euclid mission and the relevance of the study of the Diffuse Galactic Light (DGL) in its context.

The following questions will be answered :

What is Euclid ? How does an interstellar medium study could have an impact on cosmological studies ? What is the Diffuse Galactic Light and its link with all of it ?

**The project** : 2 sided : analyzing and characterizing the DGL in order to get rid of it for the Euclid mission and learn more about interstellar dust properties.

**Data** : Deep field images from Megacam mounted on the Canada France Hawaii Telescope (CFHT).

**Method** : Confronting the DGL to thermal emission of dust and building a model considering the model THEMIS as a starting point. The numerical tools are : SOC, a radiative transfer code that computes the scattering of dust, and DustEM, a numerical that computes dust thermal emission, extinction and absorption of dust.

### **Field**

InterStellar Medium

### **Day constraints**

I'm not here on Thursday the 24th. So either the 23rd or the 25th. See you there.

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**Classification de Session:** Talk

**Classification de thématique:** Astrophysics