

# SAIP2014



Contribution ID : 220

## **Modelling Inhomogeneities in the EBL**

Tuesday 08 Jul 2014 at 17:10 (01h50')

### **Abstract :**

Extragalactic Background Light (EBL) is the diffused light accumulated from all the galaxies and stars. EBL is an important tool for studying the cosmic galaxy formation history from the decoupling era until present time. In this work we model the distribution and, in particular, the fluctuations of the EBL. The study is based on the semi analytical galaxy catalogue from the Millennium Simulation data base. As a test of our model we propose to investigate the correlation between steepening of the Gamma ray spectra and the fluctuations of the EBL.

### **Award :**

yes

### **Level :**

MSc

### **Supervisor :**

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### **Paper :**

yes

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**Session classification :** Poster1

**Track classification :** Track D1 - Astrophysics

**Type :** Poster Presentation