

## **Solar system diffuse emission and the Planck Mission**

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In the context of current and future microwave surveys, mainly dedicated to the accurate mapping of Cosmic Microwave Background (CMB) anisotropy, the Zodiacal Light Emission (ZLE) represents a potential source of foreground. This talk is focussed on the fundamental aspects of ZLE modelling as all-sky templates of ZLE suitable for applications in the microwaves. I present the new perspectives in the field opened by the new high-sensitivity microwave surveys: understanding of the SED below 1000 GHz and refinement of the ZLE geometrical properties. Likely this will open highlights on the properties of Interplanetary Dust Particles as the possibility to observe the contribution to the diffuse emission from KBO dust. We also outline the impact for the multifrequency mapping of the CMB anisotropy pattern at angular scales larger than the degree, with a particular attention to the Planck mission.