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国台学术报告 NAOC COLLOQUIUM

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Time: Wednesday 2:30 PM, May 31st **Location: A601 NAOC**

Planetary Exploration, Horizon 2061:

a Community Foresight Exercise

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Prof. Michel Blanc got his Ph.D. from University Pierre et Marie Curie. Now he is working as an astronomer at the Midi-Pyrénées Observatory. He is also an executive director of the International Space Science Institute in Beijing and a visiting professor of NSSC/CAS. His main domains of scientific activity include Plasma transport in planetary magnetospheres, conception and support to the implementation of planetary missions, essentially on Giant Planets systems, and integrative approach to the expanding field of exoplanets and its connection to solar system science. He has published more than 100 papers in international refereed journals. He is the member of the American Geophysical Union and Academia Europaea. He is also the Full member of the International Academy of Astronautics and Air and Space Academy.

Abstract

We will present the preliminary results of a foresight exercise designed to produce a community Vision of Planetary Exploration up to the 2061 horizon. This Vision will be built on a concurrent analysis of the four “pillars” of planetary exploration: 1.The key priority science questions; 2.The representative planetary missions that need to be flown to address these questions; 3.The enabling technologies needed to fly this set of ambitious missions; 4.The supporting infrastructures. In this report, we will talk the results of a forum. This is an international community forum convened in Bern, Switzerland last year and identified the first two pillars, including scientific approach, overarching goal, top research objectives, from research objectives to detailed measurement objectives: Solar System exploration and drawing the contours of a strategic framework for Solar System exploration. We will also discuss how to identify a set of planetary missions addressing our objectives up to the 2061 Horizon.



All are welcome! Tea, coffee, biscuits will be served at 2:15 PM.