
Entry Probes for Planetary Exploration: the ArianeGroup Background and Capabilities

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Abstract

Jean-Marc Bouilly, Marc Lacoste, ArianeGroup SAS - France The entry probe is one key element for the exploration of the Ice Giant Planets, which requires a very challenging atmospheric entry. The presentation will address ArianeGroup heritage and capabilities in the field of probes for planetary exploration. Beyond the specific aspect of heatshield material (addressed in another talk), an overview of other essential topics will be presented (trajectory and aerothermodynamics analyses, probe design, material qualification in a relevant environment, elaboration of a reliable thermal and ablation model...)

Keywords: atmospheric entry probe

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