

Potential rovers and payload for a future polar lunar lander

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Lunar poles are thought of being of high interest to land on, because they have not been explored so far, they are near regions of quasi-eternal light, or permanent shadow for potential ices and volatiles, they are thermally benign and are promising sites for future human outposts and permanent bases.

In order to explore the Poles, a future landing mission would need the help of one or more rovers, of different sizes, allowing different levels of mobility around the landing module. They would carry on experiments, which results could improve our knowledge of the polar areas.

Therefore, we describe here possible rovers and payload capable of meeting both technological and scientific requirements for Moon missions to the Poles.