

Poster Session (P)

Poster Lunch (1)

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RESEARCH ON AIR-JET DEVICE OF LUNAR SAMPLE'S TRANSFER

Abstract

One pivotal achievements of the Third Stage Program of China's Lunar Exploration Project is to collect lunar sample and return to the Earth. Since China never has such successful sample's transfer operations which surround the lunar circular orbit, reliable transfer technology is the key work of the Docking and Sample Transferring. On account of this, my thesis has presented a new Air-Jet Device of Lunar Sample's Transfer. Introduced the device constitutes and manner of working particularly, built flow field models which based on the theories of continuous Air-Jet, analyzed air flow field based on ADINA, constructed the ground experiment system, obtained the specific parameters of device. Results showed Air-Jet Device can achieve transferring and make the corresponding reference for Lunar Sample's Transfer.