

SPACE PROPULSION SYMPOSIUM (C4)
Electric Propulsion (4)

Author: Prof.Dr. zhang tianping
Lanzhou Institute of Physics, China

THE LIPS-200 ION ELECTRIC PROPULSION SYSTEM DEVELOPMENT FOR THE DFH-3B
SATELLITE PLATFORM

Abstract

LIPS-200 ion electric propulsion system for the NSSK mission on DFH-3B satellite platform has been developed by Lanzhou Institute of Physics (LIP) since 2010. The LIPS-200 system is composed of a system control unit, 4 ion thrusters, 2 power processing units(PPU) and a xenon storage and feed subsystem(XSFS) including 2 xenon tanks, a pressure regulator unit and 4 flow controllers. In this paper, the development status of the LIPS-200 ion electric propulsion system is summarized and the next development program is presented in details.