HUMAN SPACE ENDEAVOURS SYMPOSIUM (B3)
Space Station Utilization (3)

Author: Prof. Weijia Ren
Technology and Engineering Center for Space Utilization, Chinese Academy of Sciences, China

Prof. Yidong GU
Chinese Academy of Sciences, China
Prof. Ming Gao
Chinese Academy of Sciences, China
Prof. Zhao Guangheng
Chinese Academy of Sciences, China

A BRIEF INTRODUCE FOR SPACE SCIENCES RACKS IN CHINESE SPACE STATION

Abstract

In the pressure modules of Chinese Space Station, about 15 racks are designed for space sciences and application, including Life and Ecology Rack, Biotechnology Rack, Glovebox and Refrigerate Rack, Fluid Physics Rack, Binary System Rack, Combust Science Rack, Gradient Furnace Rack, Containerless Processing Rack, Ultracold Atomic Physics Rack, High-accuracy Temporal Frequency Rack, Centrifugal Rack, Low Microgravity Rack, Onboard maintaining Rack, Modular Common Rack, Education and Public Science Rack. Each rack will be introduced in this paper, including science gaol, performance, system composition, interface for users, etc. Since Chinese Space Station will provide experiment resources for scientists from all the world, some opportunity will also be discussed.