

HUMAN SPACEFLIGHT SYMPOSIUM (B3)  
Governmental Human Spaceflight Programs (Overview) (1)

Author: Prof. chuanfeng wei

Institute of Manned Space System Engineering, China Academy of Space Technology (CAST), China,  
chfwei@163.com

Dr. Wei WANG

Institute of Manned Space System Engineering, CAST, China, wei\_w@163.com

NEW PROGRESS OF CHINA HUMAN SPACEFLIGHT TECHNOLOGY

**Abstract**

China had accomplished three space rendezvous and docking missions from 2011 to 2013, making great achievement on rendezvous and docking technology and control technology of assembled spacecraft. Subsequently, China began its human space station program, named the Third Step of China Manned Space Project, which includes Space Laboratory mission Tiangong-2 and China Space Station mission.

In this report, firstly, the achievements of rendezvous and docking missions were summarized in terms of first rendezvous and docking test, first short-term astronaut accommodation, as well as the over-life operation of spaceflight Tiangong-1. Then, the systematic scheme and major technical objectives of space laboratory Tiangong-2 were introduced, especially on middle-term astronaut accommodation and propellant refueling. Finally, the characteristic of China Space Station was proposed briefly.