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**Integration and verification requirements of science experiment
system for space station**

空间站科学实验系统集成与验证要求

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Requirements for integration and verification of space station scientific experiment systems

1 Scope

This document specifies the space station scientific experiment system integration and verification items, general requirements, and sample units, experimental units, and experimental models.

Integration and verification requirements of modules and scientific experimental systems.

This document is applicable to space life sciences and biotechnology, space materials science, microgravity fluid physics, microgravity combustion science, microgravity The location of sample units, experimental units, experimental modules and scientific experimental systems (hereinafter referred to as "products at all levels") in the fields of basic physics and other fields Surface integration and verification. New technology areas for space applications can be used as a reference.

2 Normative references

GB/T 28875-2012

GB/T 28877

GB/T 28878.8-2016

GB/T 30114.1

GB/T 32870-2016

GB/T 35435-2017

GB/T 35436-2017

GB/T 35438-2017

GB/T 35439-2017

GB/T 37844-2019

GB/T 38325-2019

3 Terms and definitions

The terms and definitions defined in GB/T 28877, GB/T 30114.1, GB/T 35435-2017 and the following apply to this document.

3.1 Experiment system

A research system composed of software and hardware experimental techniques, experimental objects and experimental operation management to achieve scientific goals.

[Source. GB/T 30114.1-2013, 4.9]

3.2 Experimental sample

Physical substances that can represent the general properties of physical substances are extracted from physical substances and used as specific experimental objects.

[Source. GB/T 30114.1-2013, 4.14]

3.3 Experimental medium

The physical substance in which the experimental physical or chemical system exists, or in which the experimental physical and chemical process takes place.