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### 基于秩和模型的大型科学仪器利用评价研究

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### The utilization evaluation for large-scale scientific instruments based on rank-sum ratio model

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摘要

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**摘要** 大型科学仪器是重要的科技资源,对大型科学仪器利用情况做出综合评价是合理配置及有效管理仪器设备的基础。秩和比(Rank-sum ratio,RSR)方法是一种集参数统计与非参数统计各自优点于一体的统计分析方法,能够对多单元多属性数据进行综合评价。以国家科技部平台中心主持项目“我国大型仪器资源现状调查”(2009)相关数据为基础,参考秩和比方法的基本原理,创建秩和模型,从定量的角度对我国大型仪器的利用情况进行综合评价。通过分析可以看出评价结果综合全面,对于摸清我国大型仪器利用状况,促进大型仪器功能发挥的相关管理政策和制度的提出有重要借鉴价值。

**关键词:** 秩和模型 大型科学仪器 综合评价 管理政策

**Abstract:** Large-scale scientific instruments are the important scientific and technological resources. Making a comprehensive evaluation on the utilization of large-scale scientific instruments should be the basis for the rational allocation and effective management of equipment. Rank-Sum Ratio (RSR) method is a set combining respective advantages of parametric statistics with non-parametric statistics in one statistical analysis method, and is able to make a comprehensive evaluation on various indicators of multiple objects. Based on the relevant data collected from project of China's Large-scale Scientific Instruments Resources Survey (2009) sponsored by the Ministry of Science and Technology Platform, a RSR evaluation model is established to make the comprehensive evaluation on the utilization of China's large-scale instruments. The evaluation results are relatively integrative and comprehensive. It possesses an important reference value for finding out the utilization situation of China's large-scale instruments and promoting the relevant management policies and systems that bring large-scale equipment into play.

**Keywords:** RSR model large-scale scientific instrument comprehensive evaluation management policy

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