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## 加速器驱动次临界堆的安全和控制特性初步研究

@段天英\$中国原子能科学研究院反应堆工程研究设计所!北京102413 @罗璋琳\$中国原子能科学研究院反应堆工程研究设计所!北京102413

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**摘要** 加速器驱动次临界反应堆(简称驱动堆)的结构特点使其安全和控制特性有别于临界反应堆。本工作使用数值计算和仿真运行方法,对驱动堆的安全和控制特性进行了初步研究。结果表明:驱动堆不易发生瞬发临界,其安全特性优于临界堆,次临界度越深,安全性越好;驱动堆控制回路具有小的时间常数和超调量,调整时间短,控制特性亦优于临界堆

关键词 [驱动堆](#) [安全](#) [控制](#)

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## Preliminary Research on Safety and Control Characteristics of Reactor Driven by Accelerator

DUAN Tian ying, LUO Zhang lin (China Institute of Atomic Energy, P. O. Box 275 47, Beijing 102413, China)

**Abstract** The safety and control characteristics of reactor driven by accelerator are studied with calculation and simulation running. The results show that reactor driven by accelerator do not happen prompt critical easily, its safety characteristics are better than critical reactor's, the higher the subcritical degree is, the better the safety is. The control loop of reactor driven by accelerator has a little time constant, a little overshoot, and short regulating time, its control characteristics also are better than critical reactor's.

**Key words** [reactor driven by accelerator](#) [safety](#) [control](#)

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