巴基斯坦微堆内辐照座通量密度与堆功率的测定

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摘要　　文章叙述了用4πβγ符合方法,通过测量金箔在堆内照射生成的活性,得到巴基斯坦微型反应堆辐照座内的热中子通量密度。并用积分方法求得裂变率,计算出单位功率的热中子通量密度,建立标准点,最后得到巴基斯坦微堆的功率。

关键词　　微型反应堆　　内辐照座　　热中子通量密度　　功率
分类号

DETERMINATION OF FLUX DENSITY AT THE IRRADIATION SITE AND THE REACTOR POWER FOR PARR--Ⅱ REACTOR

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Abstract In the report, the neutron flux density determination by $4\pi\beta$-γ coincidence method is described. In the method, the level of thermal neutron flux at the irradiation site of the PARR-II reactor is obtained by the measurement of the reactivity of gold foils irradiated there. The total fission rate is obtained by integration method. The thermal neutron flux density per kilo-watt of power is then calculated. A standard point is set up, and the power of the PARR-II reactor can thus be determined.

Key words　Miniature reactor　　Interior irradiation site　　Thermal neutron flux density　　Power

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