

质谱同位素稀释法测量电镀标准铀靶残液中微量铀

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摘要 <正> 一、前言 在裂变率和裂变截面等测量中,往往需要均匀、牢固的微量铀标准靶。电镀法是制备此种标准靶的适宜方法。为了保证电镀质量,必须准确测定电镀液中所残存的铀量。 本工作采用质谱同位素稀释法,对电镀残液中的微量铀($\sim 10^{-8}$ g)进行了测量。

关键词 [质谱同位素稀释](#) [微量铀](#)

分类号

DETERMINATION OF TRACE URANIUM IN RESIDUAL SOLUTION OF ELECTROPLATING STANDARD URANIUM TARGET BY MASS SPECTROMETRY ISOTOPE DILUTION

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Abstract The amount of 10^{-8} g of uranium was measured by mass spectrometry isotope dilution with a Varian MAT-260 mass spectrometer. The suitable working conditions and the suitable isotope ratio of mixed samples were selected. The solution was entirely loaded on a evaporation filament by using a pipette. The accuracy of the measurement was better than $\pm 2\%$.

Key words [Mass spectrometry isotope dilution](#) [Trace uranium](#)

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通讯作者

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