

## 放化法测定~(252)Cf自发裂变产物的绝对产额

@陈庆江\$中国原子能科学研究院!北京 @苏树新\$中国原子能科学研究院!北京 @杨景霞\$中国原子能科学研究院!北京 @陈云东\$中国原子能科学研究院!北京 @李学良\$中国原子能科学研究院!北京 @张红娣\$中国原子能科学研究院!北京 @林发\$中国原子能科学研究院!北京 @孙淑英\$中国原子能科学研究院!北京 @张淑兰\$中国原子能科学研究院!北京 @郭景儒\$中国原子能科学研究院!北京

收稿日期 1984-2-15 修回日期 网络版发布日期:

**摘要** 本文用放化法测定~(252)Cf自发裂变产物35个质量链的绝对产额。研究了~(252)Cf自发裂变产物的质量-产额分布曲线。其轻峰平均质量数为 $106.39 \pm 0.08$ ;重峰为 $141.82 \pm 0.09$ ;平均释放中子数 $v=3.79 \pm 0.12$ 。轻、重峰高度1/10处的宽度分别为26.7和26.8个质量单位,峰谷比 $\geq 370$ 。实验结果与文献作了比较。

**关键词** 放化法 ~(252)Cf 自发裂变 裂变产额

分类号

### THE ABSOLUTE DETERMINATION OF THE SPONTANEOUS FISSION YIELD OF ~(252)Cf BY RADIOCHEMICAL METHOD

CHEN QINGJIANG; SU SHUXIN; YANG JINGXIA; CHEN YUNDONG; LI XUELIANG; ZHANG HONGDI; LIN FA; SUN SHUYING; ZHANG SHULAN; GUO JINGRU Institute of Atomic Energy, P. O. Box 275, Beijing

**Abstract** The mass distribution in the spontaneous fission of ~(252)Cf was investigated by the radiochemical determination of the absolute fission yield for 35 mass chains. An integration of the mass-yield curve gives a value of 199.4% which is in very good agreement with the value of 200% in fission. The mean masses of the light and heavy groups are located at 106.39 and 141.82 respectively. The average neutron number per fission (?) is  $3.79 \pm 0.12$ . The peak-to valley ratio is  $\geq 370$ . The results obtained in this work is compared with those in literature.

**Key words** Radiochemical method ~(252)Cf Spontaneous fission yield

DOI

通讯作者

### 扩展功能

#### 本文信息

▶ [Supporting info](#)

▶ [\[PDF全文\]\(385KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

#### 参考文献

#### 服务与反馈

▶ [把本文推荐给朋友](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

#### 相关信息

▶ [本刊中包含“放化法”的相关文章](#)

▶ [本文作者相关文章](#)