

技术及应用

等熵稀疏靶的制备及靶参数精密测量

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摘要 本工作研究等熵稀疏靶的制备工艺和靶参数的测量方法。采用精密激光加工工艺将Al、Au、Ag、Cu、Zn等高纯金属薄膜切割成百微米量级宽度的窄条, 再结合精密微装配技术获得应用于状态方程实验所需的等熵稀疏靶。运用白光干涉仪对等熵稀疏靶进行参数精密测量。将等熵稀疏靶运用到“神光II”上进行实验打靶, 并获得优质的实验图像。

关键词 [等熵稀疏; 靶; 激光; 状态方程](#)

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Fabrication and Measurement of Isentropic Release Target

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Abstract The fabrication and measurement of isentropic release targets were described. The Al, Au, Ag, Cu and Zn thin foils were cut to hundred micron by apparatus of laser. They are fabricated to isentropic release targets using in the laser equation of state experiments by the assembly. The parameters of targets were measured by NT1100 profiling system. The isentropic release targets were used in ‘SG II’ experiments and good images were obtained.

Key words [isentropic](#) [release](#) [target](#) [laser](#) [equation](#) [of](#) [state](#)

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