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## **P2.238 Experiment study of spectrum of air bubble flash lamp**

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As an important component of the amplifier of inertia confined fusion (ICF), the flash lamp pumping efficiency has a lot to do with the amplifier efficiency and. In this paper, a kind of flash lamp with a new design has been manufactured to acquire high performance and it has been proved to be able to acquire high performance than the traditional flash lamps. Comparisons between the new and the traditional flash lamps have been made in terms of spectra of different discharge stages. In the same drive circuit, when the current increases, the spectrum of the new structured lamp is much higher than that of traditional lamp and dominated by continuous spectrum. After the peak of current, the spectrum of the new structured lamp is similar to the traditional lamp. The mechanisms of the improvements and the further optimization for the new structure are discussed.

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