

PROGRESS OF INNER-SHELL IONIZED HARD X-RAY LASER PUMPED BY XFEL

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The intense hard x-rays from XFEL can create high excitation density conditions of a specific ionization state of the atoms in solid materials. About 20% of the atoms in a solid metal can be ionized in a very short time interval ($<10\text{fs}$) at XFEL intensity of $1020\text{W}/\text{cm}^2$. This well-ordered nonequilibrium condition is suitable for new hard -ray laser medium. Recently, we demonstrate a new type of mode-selective hard -ray lasers based on a distribution feedback Bragg (DFB) scheme.

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