

High Energy Laser Development for the Joint Technology Office

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The High Energy Laser Joint Technology Office (HEL-JTO) was established in 2000 for the purpose of developing and executing a comprehensive investment strategy for HEL science and technology that would underpin weapons development. Recent progress in diode-pumped solid-state lasers has significantly enhanced the performance of solid-state lasers for higher efficiency and higher average power output. The high reliability and high efficiency of diode pumped lasers make them attractive for a variety of military applications. The progress of Nd:YAG solid state lasers in the multi-tens of kilowatts power range with good beam quality is presented in this presentation.

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