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Laser Technology in 2025

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The continued advancement of short pulse lasers with high average power is crucial for the development of important applications. There are several technologies being used in the next generation of lasers systems from more flash lamp technology to solid state diode pumped technology. Diode pumping has been identified at the CLF as the future route for increasing the repetition rate, and hence average power, of high power lasers. We describe the current performance achieved and what advances are expected in this field in the next decade that would enable a wide range of applications of high power lasers.

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