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4P31 - Auto-collimation and monitoring of KrF laser beam in the E-beam pumped high power excimer laser facility

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Auto-collimation and monitoring of KrF laser beam in the E-beam pumped high power excimer laser facility

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Abstract:

The characters of the laser beam, such as the aiming precision and irradiation intensity on target, are important for the laser-matter interaction study. To ensure the aiming precision of the KrF laser in planar target experiment, an auto-aiming device with computer control has been set up in the target field of Heaven-I facility and some auto-collimating devices has been used to precise align the multiple laser beams in angular multiplexing system. These devices have greatly improved the aligning efficiency and aiming precision. Meanwhile, an on-line monitor system has been set up to acquire the beam energy and uniformity of the laser system.

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