EXPERIMENTAL STUDIES OF THE
PHYSICS OF LASER FUSION*

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ABSTRACT

A discussion is given of selected topics relating to experimental studies of laser-matter interactions under conditions of interest to laser-fusion. The NRL laser system, PHAROS II, designed for such studies, is first described. Some of the more novel diagnostics (probing beam, ion, x-ray) are then described. Finally, a discussion is given of two experimental studies which yield information (B-field dependence and inhibition) about thermal transport.

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