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Model of the Indirect Compression of Targets under Conditions at an Energy of 1.5 MJ

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The possibility of the analysis and interpretation of the reported experiments with the megajoule National Ignition Facility (NIF) laser on the compression of capsules in indirect-irradiation targets by means of the one-dimensional RADIANT program in the spherical geometry has been studied. The results of the simulations are in satisfactory agreement with the measurements and correspond to the range of the observed parameters. The one-dimensional simulation of the compression of the capsule can be useful in establishing the boundary behind which two-dimensional and three-dimensional simulation should be used.

Primary author: Dr VERGUNOVA, Galina (Lebedev Physical Institute)

Co-author: Prof. ROZANOV, Vladislav (Lebedev Physical Institute)

Presenter: Dr VERGUNOVA, Galina (Lebedev Physical Institute)

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