

Interaction of laser-produced W/ Mo plasmas with the surface of Mo

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Charge and energy spectra of multiply charged ions, formed at the interaction of laser-produced W/ Mo plasmas with the secondary Mo targets were investigated as a function target nature and the distance between primary and secondary targets. It was found experimentally that the increase of the distance from 2 mm till 10 mm leads to changing of intensity and the amount comparably to their free flight. It has been shown the possibility of changing the kinematics and the dynamics of plasma expansion using various materials with determined emission features at different the distance, as well as changing the focusing conditions of laser radiation.

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