



## **Structure and Intensity of X-ray Radiation in a laser Plasma-Wall Interaction**

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The interaction of high-temperature plasmas containing highly charged ions with solid walls is studied. Intense soft x-ray radiation is observed when a high temperature laser-produced plasma collides with a solid surface (wall). Structure and intensity of the x-ray radiation are investigated. The data are important for the creation of intense soft x-ray radiation sources, the development of black body radiation with a radiative temperature of about 100 eV and higher, the formation of active media for x-ray lasers, and inertial confinement fusion. Possible application for Tokamak plasmas is considered.