Abstract Submitted
for the MAR12 Meeting of
The American Physical Society

Interaction of free boundary of fluid layer with Taylor wave created by laser pulse ALEXEY SYUNDYUKOV, MIPT, MICHAEL ASTASHKIN, VICTOR BARANOV, ALLA GEORGIEVSKAYA, ANATOLY GOLUBINSKY, RFNC-VNIIEF, EVGENIY MESHKOV, SarFTI NRNU MEPhI, DMITRIY IRINICHEV, VITALIY KHATUNKIN, RFNC-VNIIEF — In the hydrodynamic laboratory of SarFTI NRNU MEPhI experiments carry out to study the instability of the free surface of a thin (about 2 mm) layer of fluid, developing after the going to surface nonsteady decaying shock wave (Taylor wave) with amplitude of about 1 kbar. The Taylor wave was produced by evaporating a thin (about 1 mm) target located on the surface layer under the influence of the laser pulse duration of 10 ns. The results of the experiments and discussion are presented.

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Date submitted: 29 Nov 2011 Electronic form version 1.4