

Abstract Submitted
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Nonlinear and breaking micron waves at the edge of laser-liquified indium pool STJEPAN LUGOMER, Rudjer Boskovic Institute, Zagreb, Croatia, NORMAN ZABUSKY, Dept MAE, Rutgers University — We have discovered solidified fossils of micron-sized nonlinear and breaking surface waves of 10 micron depth on the edge of a liquid indium pool. These are likely the result of driven capillary-gravity waves. These results were obtained with a 30 nanosecond laser beam interacting with a thin indium target. The laser fluence varied around 4.25 J/cm^2 . As the fluence is increased, the waves “break-and-spill” and elongated fingers and spherical bubbles appear more frequently on the fossil surface.

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