



Extremely fast jets and vortex dynamics of single laser bubbles

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An extreme fast jet has recently been predicted by the authors [1] for cavitation bubbles close to a solid boundary. Until then jet velocities were known only in the order of ~ 100 m/s for large distances from the

boundary, whereas the extreme fast jet is supposed to reach orders of ~ 1000 m/s when the bubble collapses in the direct vicinity. The lifetime of this jet is in sub- or few microseconds range. These properties make the experimental confirmation a laborious task. However, the authors claim to have photographed it. The results are discussed and a considerable lower bound for the jet velocity of ~ 300 m/s can be given.

[1]: Christiane Lechner, Werner Lauterborn, Max Koch and Robert Mettin; „Fast, thin jets from bubbles expanding and collapsing in extreme vicinity to a solid boundary: A numerical study“ Phys. Rev. Fl. 4 021601(R) (2019)

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