

CFADAGA2004/340 On the Classification of Cavitation Bubble Structures

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It has recently been recognized that the appearance of acoustic cavitation can be classified into several prototypes of bubble structures. We report on new results and characterization of such structures. Experimental methods comprise high-speed cinematography and recording of acoustic emissions. Properties of different bubble patterns are discussed, in particular with respect to ultrasonic cleaning and surface erosion. Furthermore, the controllability of bubble structures by external means is investigated.

The complete document was not available at the publication time. It has been replaced by the submitted abstract.