

eurorib'10

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Liquid metal target prototypes for EURISOL Project: goals and future challenges

Poster is dedicated to the concepts of the EURISOL multi megawatt liquid metal target. One of the possible versions could be windowless target concept. Windowless target concept has the ability to withstand the extremely high loads in the terms of hydraulic shocks, thermal loads, cavitations, reliable work and adequate lifetime of the target. Meantime this concept hasn't been studied much, which give scientific and technological challenge for the scientists and engineers to enforce it. Development of the windowless target concepts is overseen along with comparison with classical targets. Theoretical considerations and numerical simulations are viewed. Experimental developments and future concepts of low pressure crossflow targets are shown at the poster.

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