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Experimental comparison of symmetry in rugby and cylindrical holhraums FRANCK PHILIPPE, CEA/DIF, BP 12, 91680 Bruyeres-le-chatel, France, VERONIQUE TASSIN, STEPHANE LAFFITE, MARIE-CHRISTINE MONTEIL, JOSIANE BASTIAN, LAURENCE LOURS, BRUNO VILLETTE, PHILIPPE STEMMLER, SOPHIE BEDNARCZYK, BENOIT RENEAUME, PASCALE DI NICOLA, VINCENT RAFFIN — Recently, holhraum shape optimization has been investigated as a practical way to achieve ignition at lower energy [1][2]. Rugby shaped holhraums theoretically allow better energetic coupling and symmetry control than classical cylinders. As a first step toward an experimental validation of this design, this talk presents the results of experiments on the OMEGA laser facility dedicated to the comparison of symmetry in cylindrical and rugby holhraums. Foamball radiographs and Symcaps emission contours for both type of holhraums are compared to numerical simulation results.

[1] M. Vandenboomgaerde *et al.*, accepted by Phys. Rev. Lett.

[2] P. Amendt *et al.*, Phys. Plasmas **14**, 056312 (2007)

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