

**MODEL TESTS FOR A LARGE DIAMETER SIMULATOR DRIVEN BY SEVERAL
GENERATORS FILLED WITH COMPRESSED AIR**

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The fundamental phenomena appearing in a simulator driven by several generators, filled with compressed air and sealed with membranes were investigated by Ernst-Mach-Institut in a model device. The results are shown by shadowgraphs and some pressure-time-diagrams. The starting phenomena (shock formation, free jet shape) during the expansion both in the free space and in an adjacent channel (simulator) are discussed and estimations about the necessary minimum length of a simulator are made.