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**"Semi-Captive Trajectory Technique" - NAL Experience**

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15. Abstract

**A "Semi-Captive Trajectory Technique" for wind tunnel simulation of separation characteristics of external stores released from a parent aircraft is explained in detail. A sample data for a store released at  $M = 0.9$  is presented. In this particular case the separation trajectory obtained is seen to be smooth. Extension of this wind tunnel technique to determine trajectories of separating boosters of launch vehicles is also highlighted.**