



Contribution ID: 30

Type: **Presentation**

Aerodynamics in arbitrarily accelerating frames: application to high-g turns

Fifth-generation missiles accelerate up to 100 g in turns, and higher accelerations are expected as agility increases. We have developed the theory of aerodynamics for arbitrary accelerations, and have validated modelling in a Computational Fluid Dynamics code. In this paper we will show fin disruption by strake vortices.

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Track Classification: Track F - Applied and Industrial Physics