

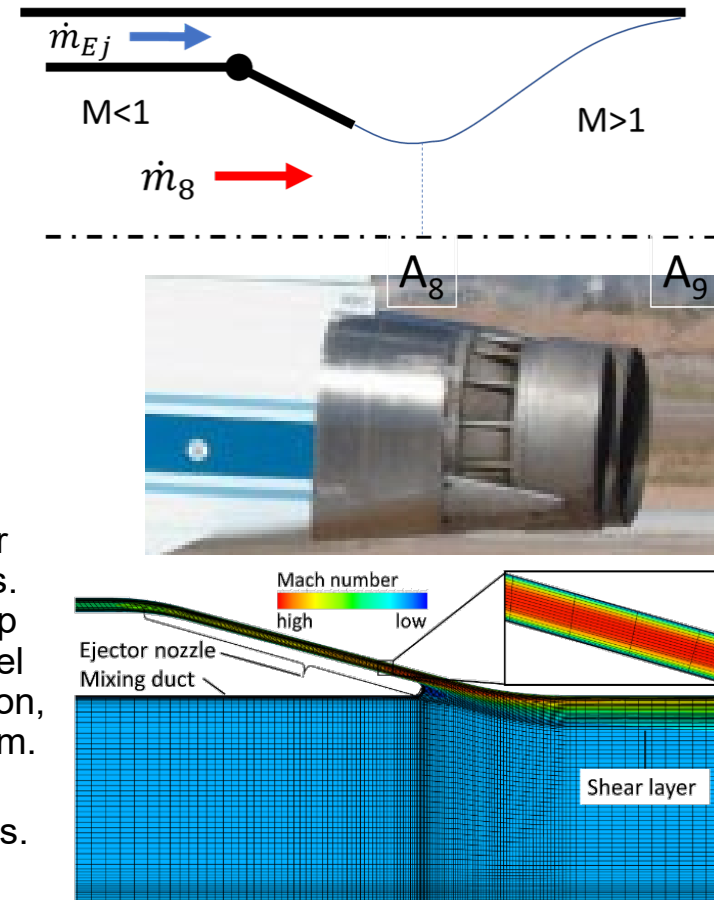
Versatile Ejector Pump System

Background:

The efficient mixing of flows is of crucial importance, especially in multi-flow turbo engine architectures. Also, in relation to novel engine nozzle concepts and a wide range of other applications, ejector pump systems represent a lightweight and reliable solution for these problems. To adapt to different operating conditions, the design of such ejector pumps might be quite challenging.

Aim of the Work:

The intended work shall include the research on novel approaches for ejector pump designs and off-design operation, especially in aeroengine applications. Therefore, a reference model and relevant CFD simulation of an ejector pump shall be set up and validated with available test data. In a next step, the model shall be adapted to represent selected new approaches for design optimisation, especially to investigate possible operating range extensions of such a system. Relevant experience in CAD and CFD is desirable, but not mandatory. The applicant shall have a strong dedication to aerospace technology and engines.



Beginn: Ab sofort

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