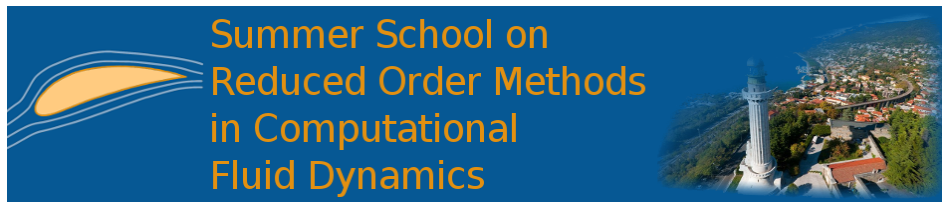


## Summer School on Reduced Order Methods in Computational Fluid Dynamics



Contribution ID: 53

Type: **Poster**

### Finite Volume Reduced Order Methods based on SIMPLE Algorithm

*Wednesday, July 10, 2019 4:27 PM (3 minutes)*

In these last months we have been working on the resolution of the parametrized Navier Stokes problem. In order to apply a reduction method, we started from full order solutions obtained by the use of the OpenFOAM package.

What is new in our work is the effort to follow the SIMPLE algorithm strategy, used in the OpenFOAM full order solvers, also for the reduced problem. The goal is to have a reduced problem as consistent as possible with respect to the full order one.

In this poster the obtained results will be presented, giving a perspective also on future developments.

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