



## ERCOFTAC conical diffuser case study

• Described in the OpenFOAM Wiki:

http://openfoamwiki.net/index.php/Sig\_Turbomachinery\_/\_ERCOFTAC\_conical\_diffuser (openfoamwiki.net, click on User Pages, Special Interest Groups, Turbomachinery, Validation test cases, ERCOFTAC conical diffuser)

- Available through SVN at SourceForge.
- Features:
  - Description of the geometry and measurements, and references to relevant publications.
  - Parameterized mesh generation with m4 and blockMesh.
  - A new axi-symmetric profile boundary condition.
  - A new utility for setting solid-body swirl at patches and internally.
  - Validation against experimental data using sample, gnuplot and mozilla.
- Run Case0, Case1.3, and finally Case1.2 (this will take some time!). Check all of the set-up procedure in detail!