

## ERCOFTAC conical diffuser case study

- Described in the OpenFOAM Wiki:

[http://openfoamwiki.net/index.php/Sig\\_Turbomachinery/\\_ERCOFTAC\\_conical\\_diffuser](http://openfoamwiki.net/index.php/Sig_Turbomachinery/_ERCOFTAC_conical_diffuser)

(openfoamwiki.net, Find **Special Interest Groups**,  
Turbomachinery, Validation test cases, ERCOFTAC conical diffuser)

- 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.

- Source OpenFOAM-1.5-dev

- Run Case0 and Case1.3. Check all of the set-up procedure in detail!