

Measurement protocoll

DIAMRI 2024

Rostock, MRI flow lab

Date: 30.01.2025

Transfer from
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Identification

Format	ZIP archive
Identification number:	FID 15111 ... 15116
Name of measurement:	3D 4-Point PC MRI

Geometry

- 5x5 fuel rod bundle
- Spacer configuration in flow direction
 - 4 non-mixing grids
 - 1 split-type mixing grid
 - 2 non-mixing grids

MRI parameter velocity

Receiver coil	R32
Voxel size in mm ³	1.5x1.5x4.0
FOV in mm ³	168x168x112
Echo time TE in ms	1.75
Repetition time TR in ms	5
Echo asymmetry	0.2
Inv. readout	no
Flip angle in °	10
Bandwidth in Hz/px	880
VENC in m/s	1.47
No. of averages	80

MRI parameter temperature

Receiver coil	R32
Voxel size in mm ³	1.5x1.5x4.0

FOV in mm ³	168x168x112
Echo time TE in ms	3
Repetition time TR in ms	5
Echo asymmetry	0.5
Inv. readout	no
Flip angle in °	10
Bandwidth in Hz/px	880
VENC in m/s	0
No. of averages	150

Files

- mrifl_202408_diamri_3d-vel-tke-t.cgns
- mrifl_202408_diamri_cad_a.stl
- mrifl_202408_diamri_boundaryconditions_a.xlsx

CGNS was generated using ParaView 5.12.0 RC-1.

Reading this file requires with CGNS v.4.0.0 or higher

Checksums

6881a1b18f600c389f08b2c626a0ecd9 *mrifl_202408_diamri_boundaryconditions_a.xlsx

0423070130a09b607e1a564b4424f151 *mrifl_202408_diamri_3d-vel-tke-t_a.cgns

aa738b8cf69f0dcd16bb8d83f7ca9e55 *mrifl_202408_diamri_cad_a.stl