

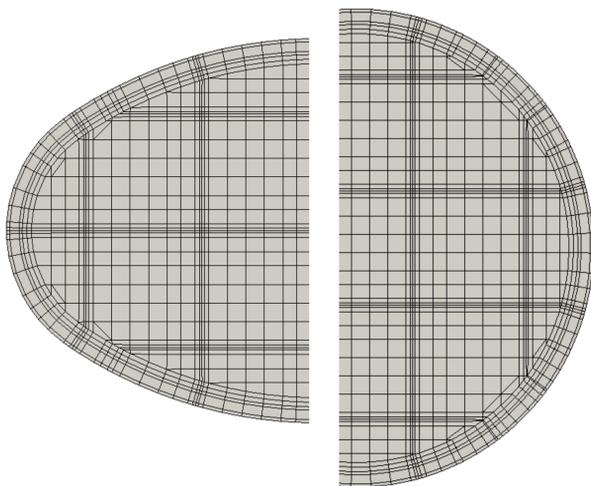
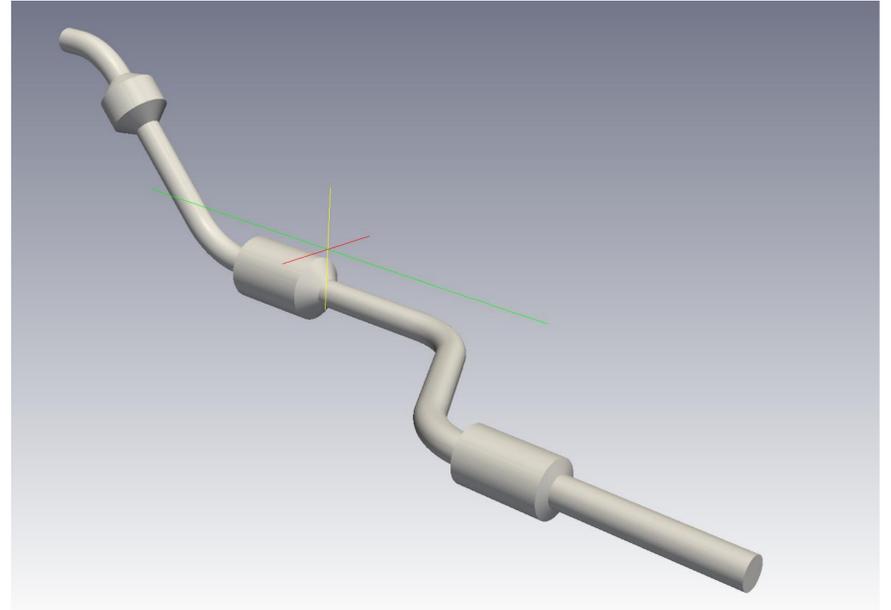


GENERIC CODE FOR AUTOMATED 3D DISCRETIZATION OF AFTERTREATMENT DEVICES

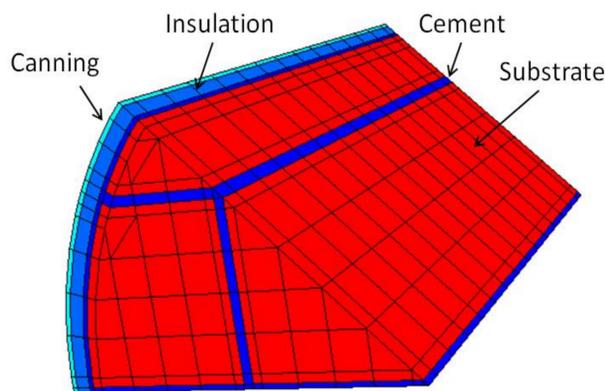
DEPARTMENT OF MECHANICAL ENG.
LABORATORY OF HEAT TRANSFER

Development of meshing tool for exhaust aftertreatment devices

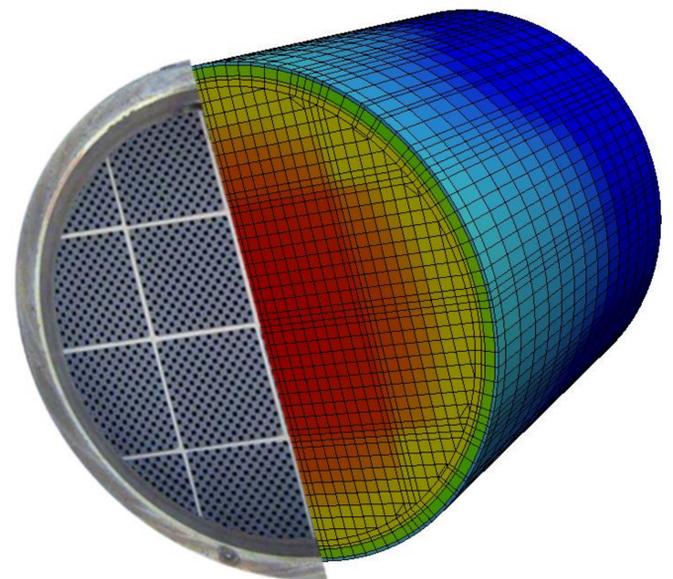
- Flow-through (DOC, 3WC, LNT, SCR)
- Wall-flow (DPF, cDPF, WSCR)



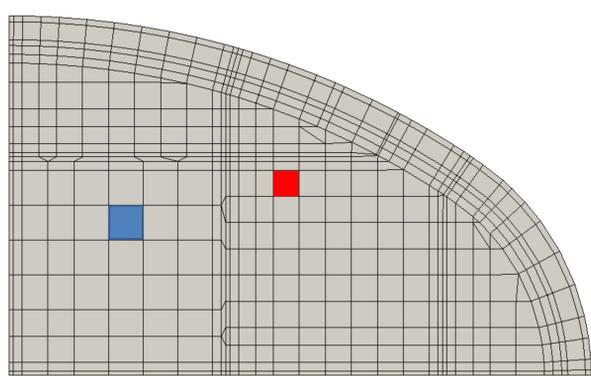
Generic external shape



Multiple materials

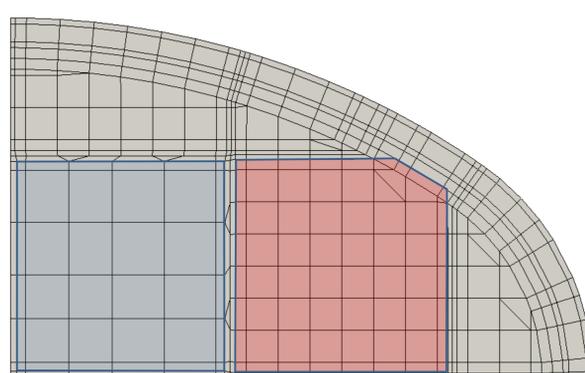


Square segmentation for filters



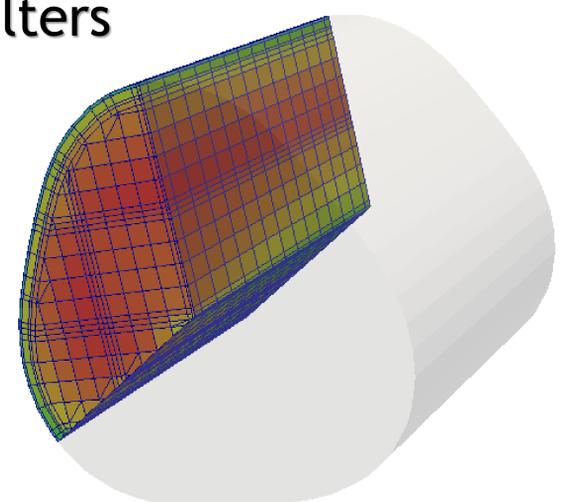
Mesh density zoning for fast & accurate simulation. E.g.

- Internal zone, 4x4 element size
- External zone, 3x3 element size



Support of DPFs with segment zoning. E.g.

- Internal zone, 300/12 segment
- External zone, 200/14 segment



Symmetry lines at any angle for

- reduced mesh
- faster simulation

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