DrivAer Fastback smooth under-body meshes created in ANSA v16.1.0 for Test Case 4 of project ABOUTflow

February 2016

Summary

Three meshes created:

1) **Fine tetra** - prismatic layers + tetra mesh
12.0 million cells

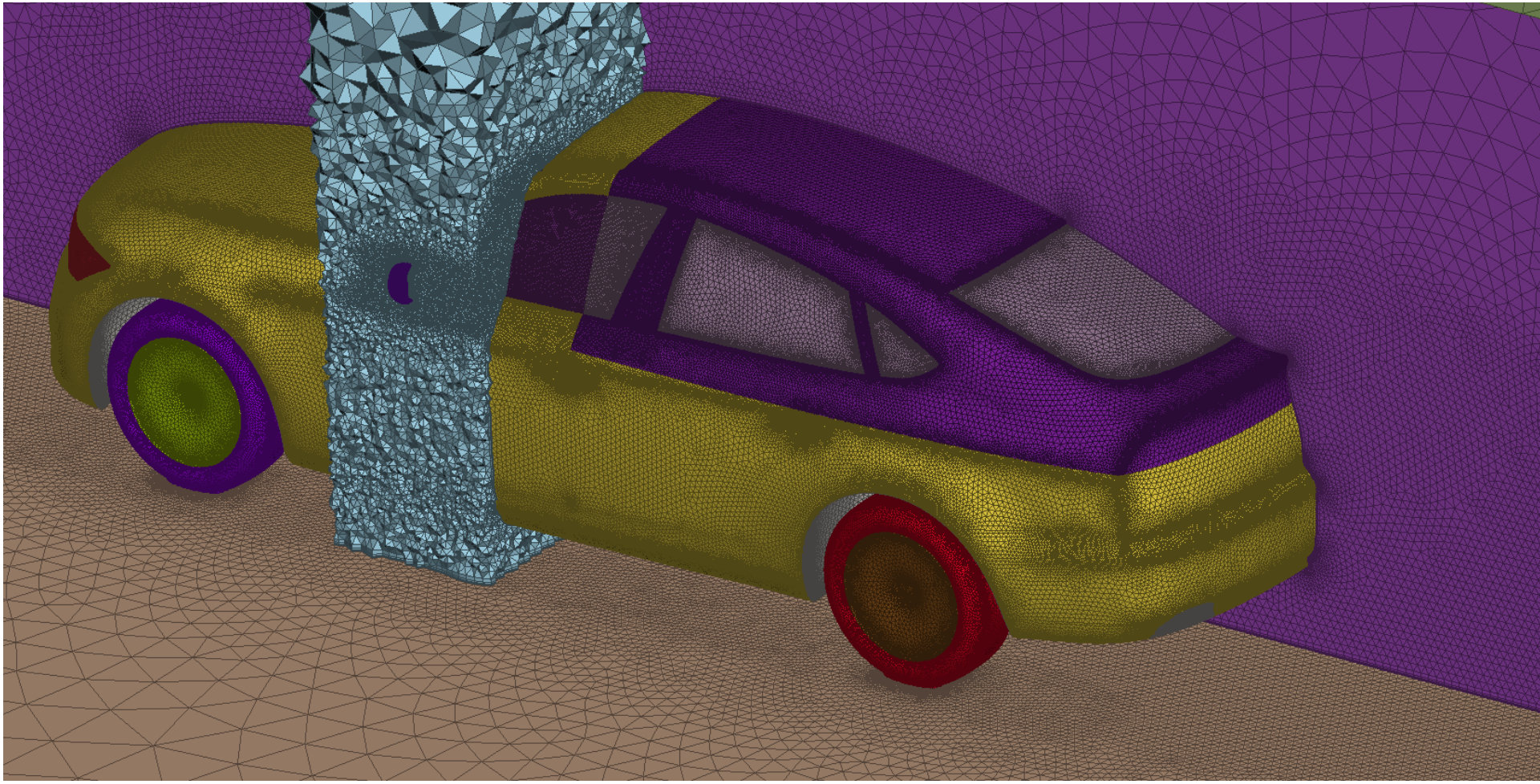
2) **Coarse tetra** - prismatic layers + tetra mesh
5.4 million cells
(Mesh element length=1.5 * **Fine tetra** case)

3) **Fine Hexa** - hexa/prism layers + HexaInterior (hybrid hexa/pyramid/tetra)
5.3 million cells
(Mesh element length = **Fine tetra** case

(In all cases: 5 layers, first height = 1mm, growth rate 1.2, last aspect 0.6)

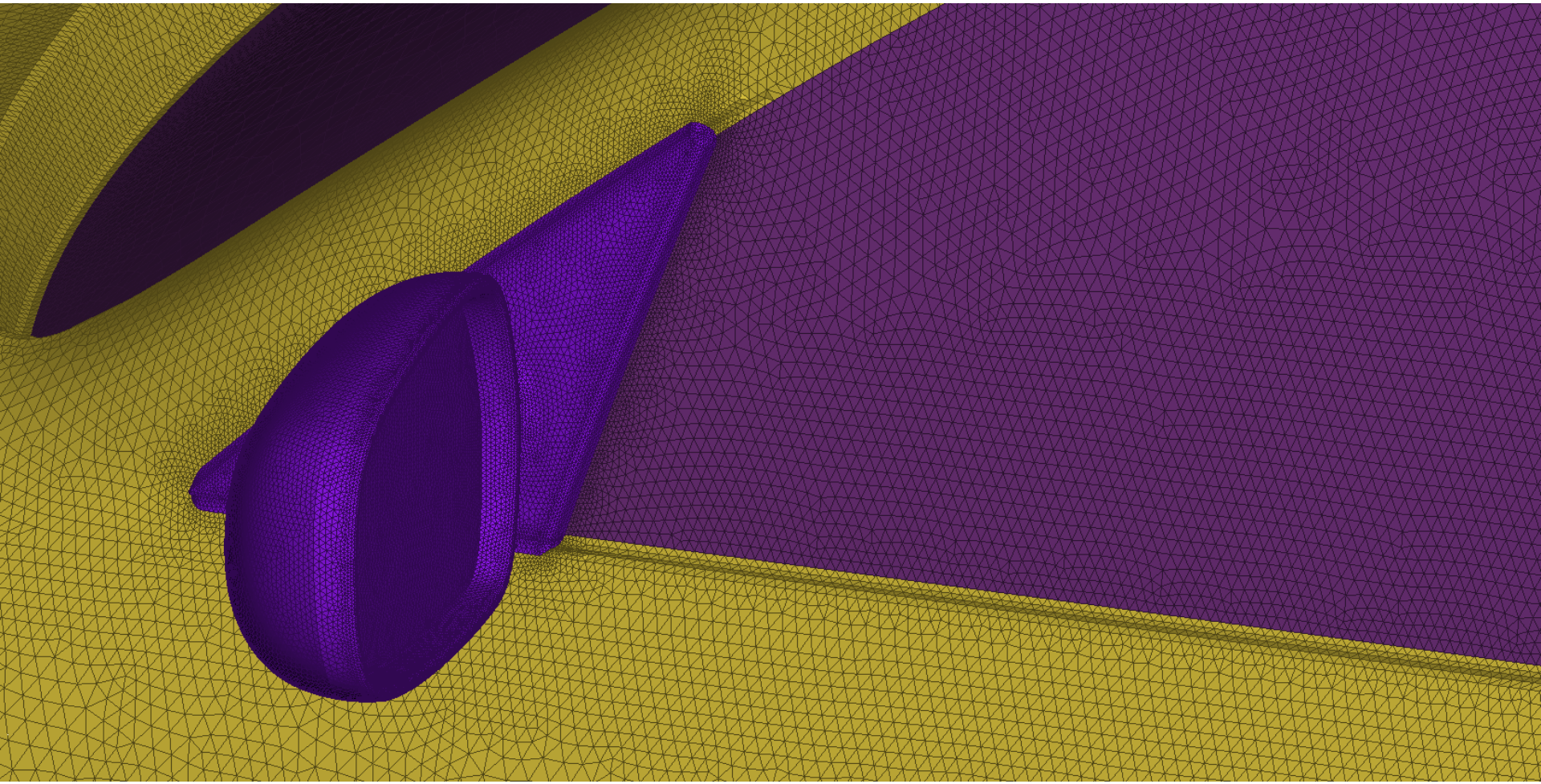
Fine Tetra – 500k trias on surface, 12 million cells in volume

Shell mesh size on vehicle from 1.5mm to 20mm



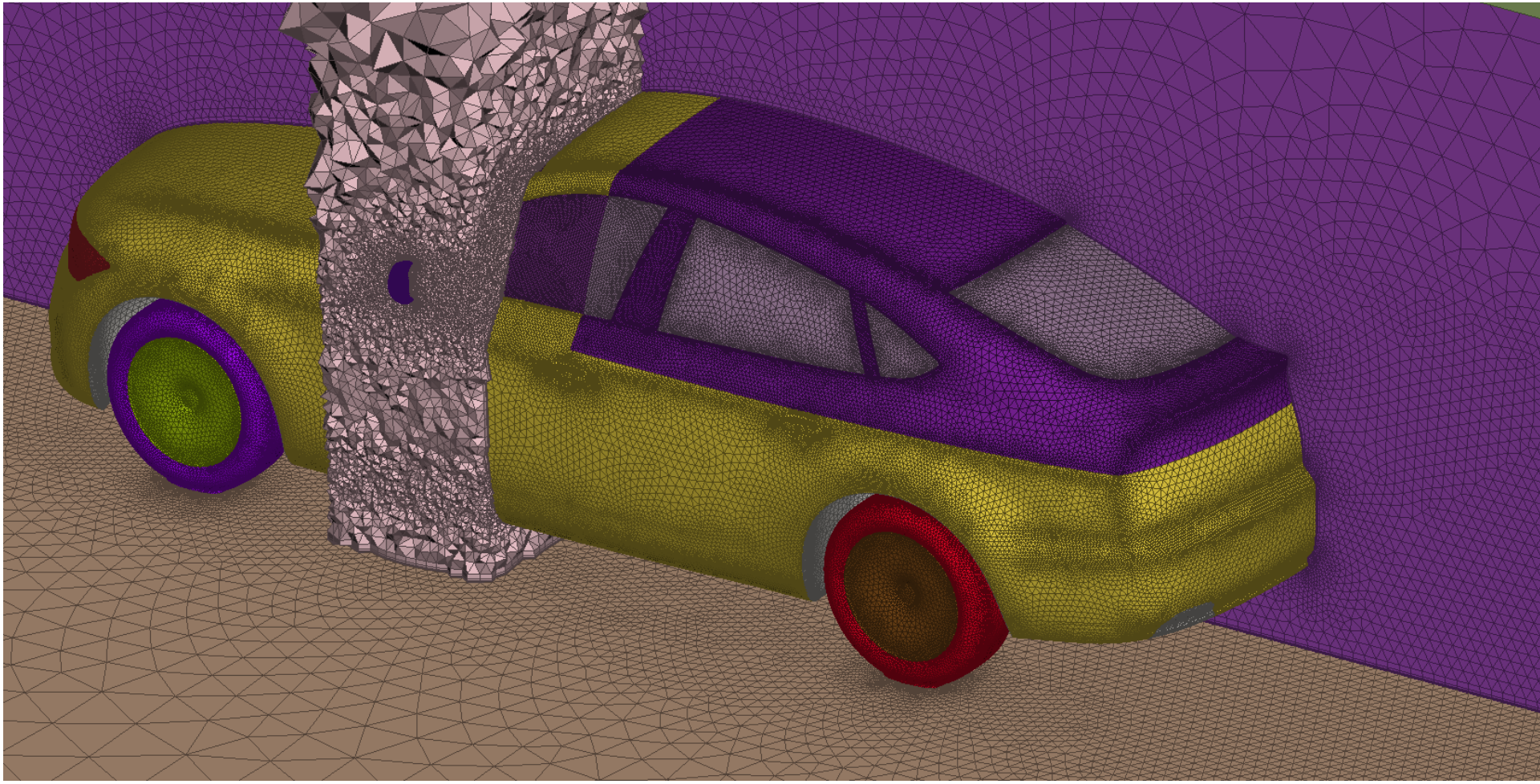
Fine Tetra – 500k trias on surface, 12 million cells in volume

Shell mesh size on vehicle from 1.5mm to 20mm



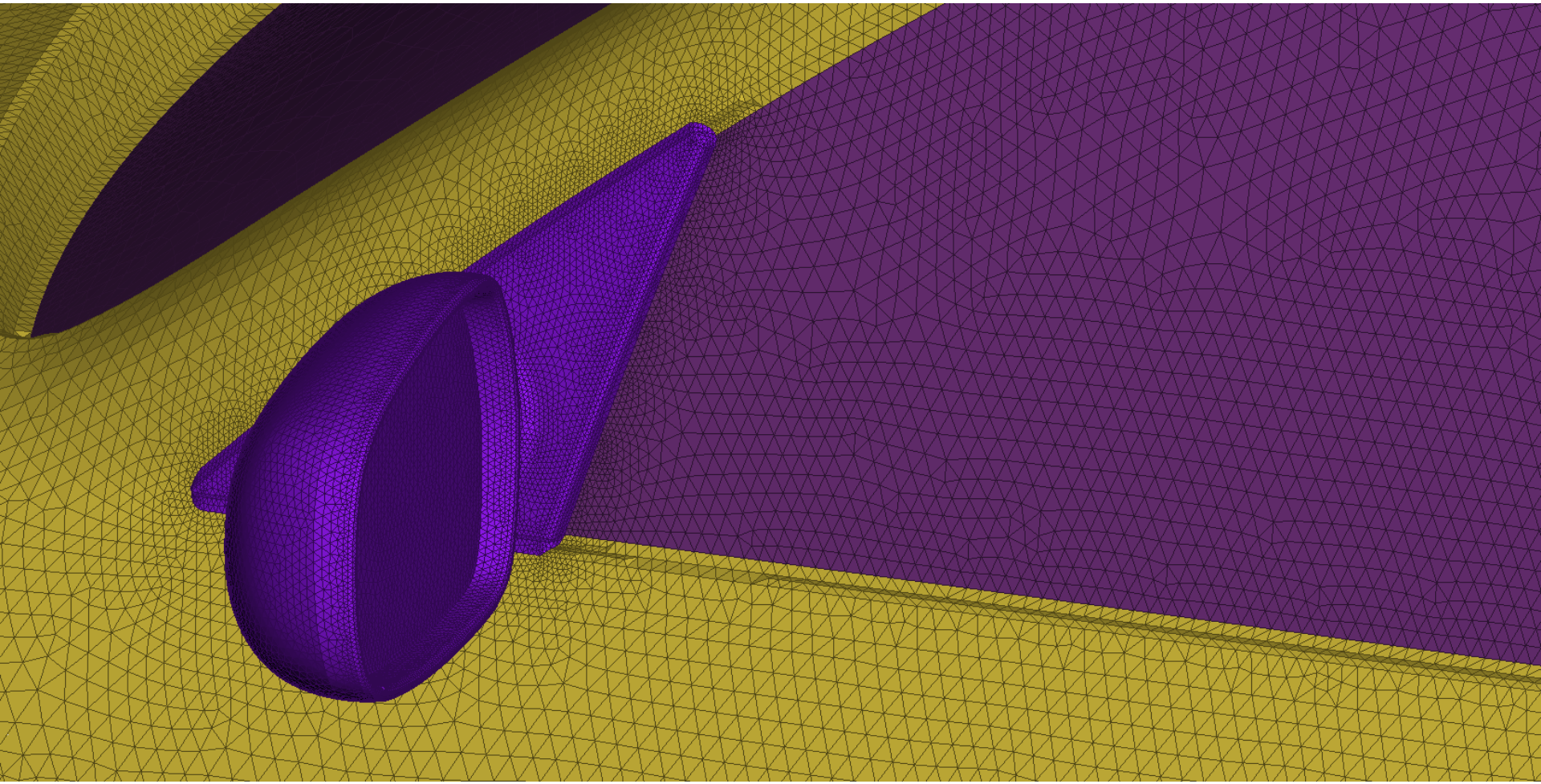
Coarse Tetra – 277k trias on surface 5 million cells in volume

Shell mesh size on vehicle from 2.25mm to 30mm



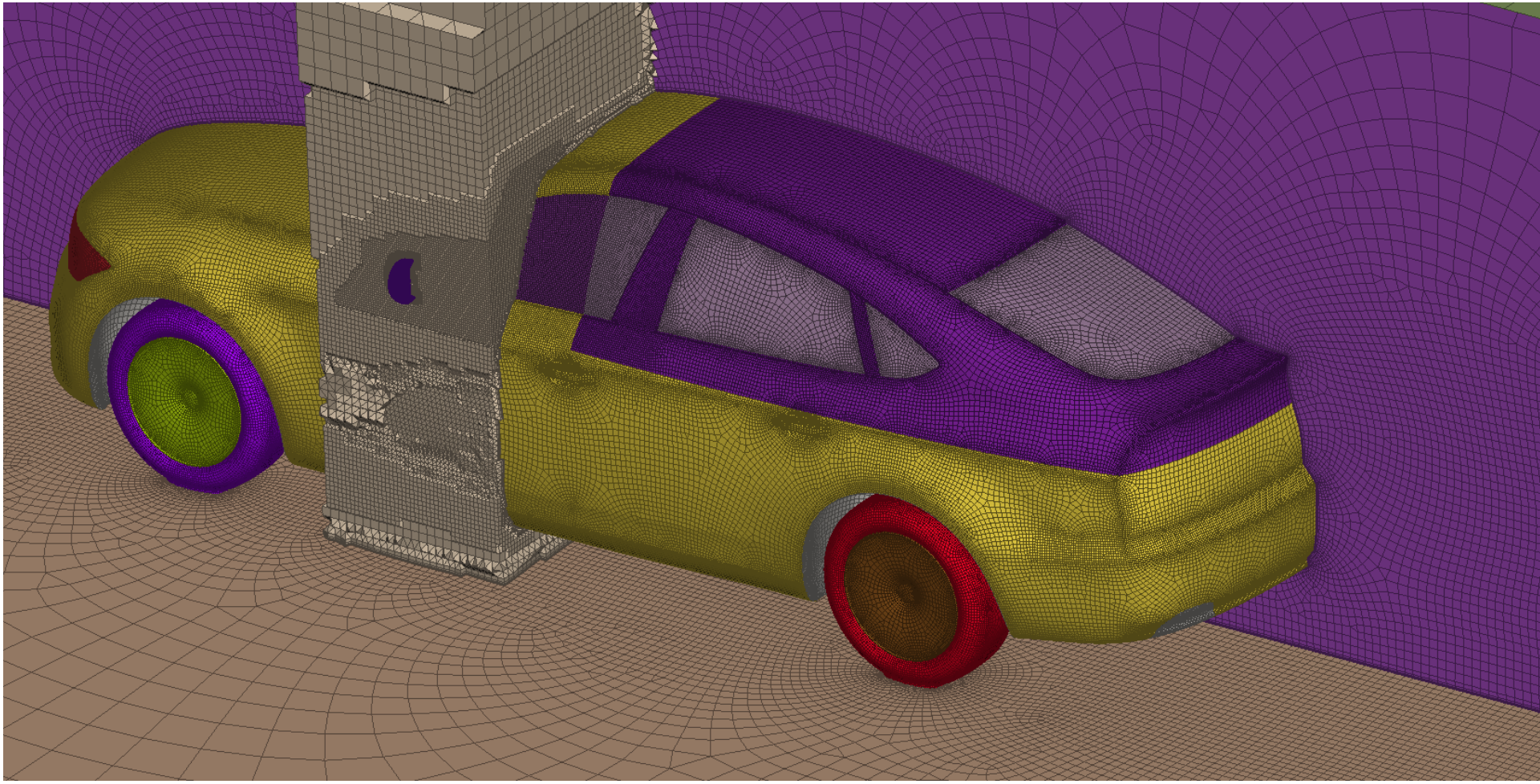
Coarse Tetra – 277k trias on surface 5 million cells in volume

Shell mesh size on vehicle from 2.25mm to 30mm



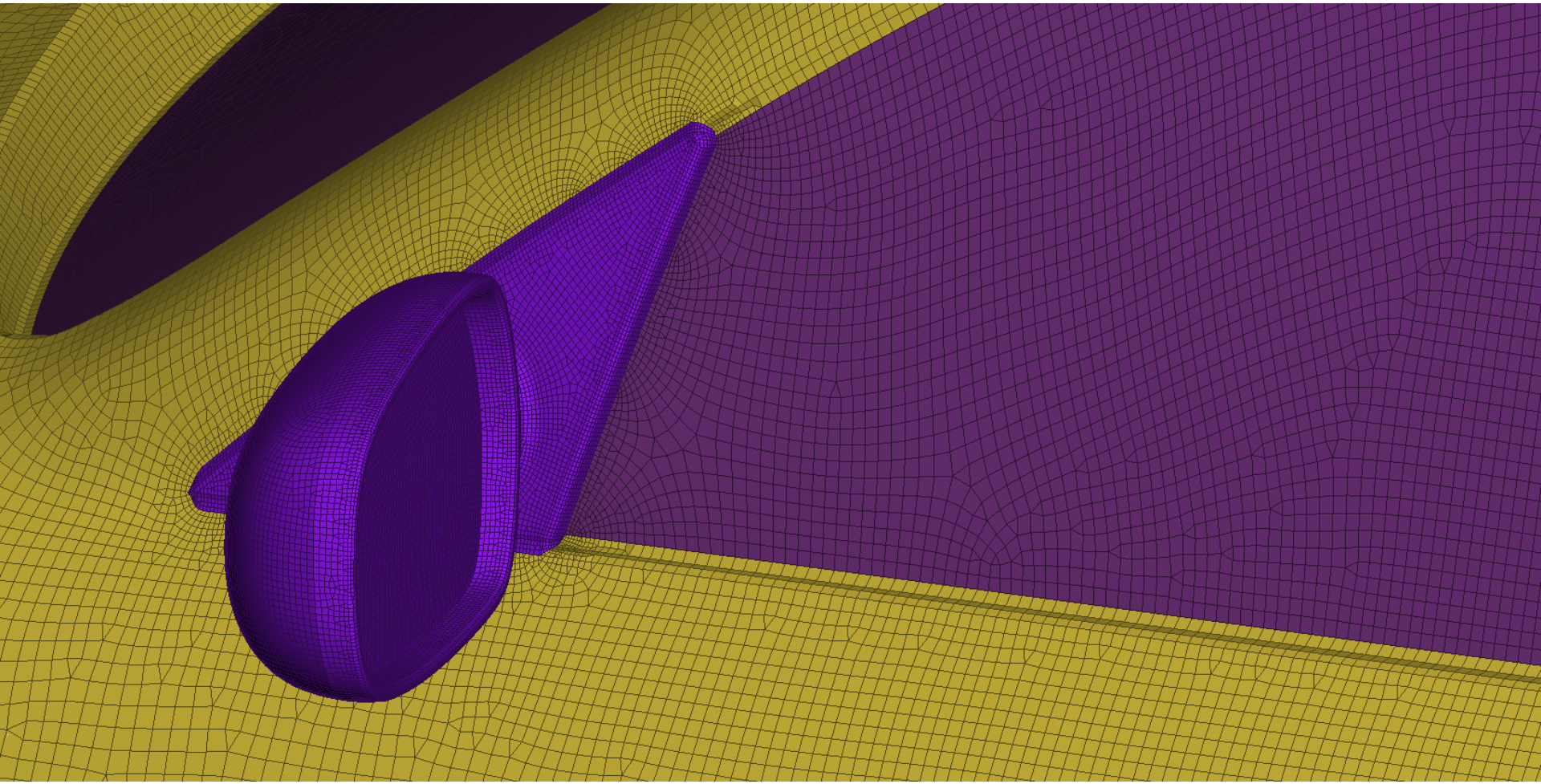
Fine Hexa – 218 k quads/trias on surface 5 million cells in volume

Shell mesh size on vehicle from 1.5mm to 20mm



Fine Hexa – 218 k quads/trias on surface 5 million cells in volume

Shell mesh size on vehicle from 1.5mm to 20mm



Thank you

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