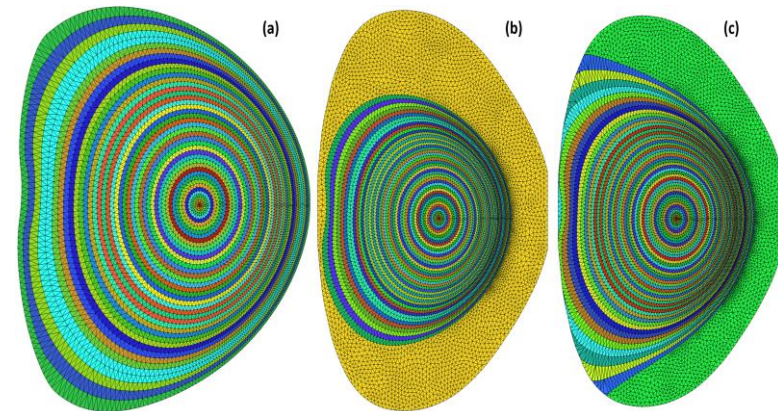
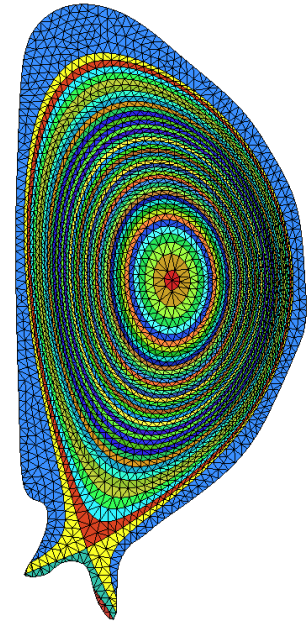


Tokamak Modeling and Meshing Software (TOMMS)

- ❑ SCOREC tool dedicated to the Tokamak Meshing.
 - ❑ Triangular 2D mesh of a poloidal plane with field-following vertices for user-defined region of Tokamak
 - ❑ Flux curves with one element deep element (i.e., one element between two adjacent flux curves)
 - ❑ Unstructured meshes for undefined part of scrape-off-layer regions
 - ❑ Better Control on the domain definition
 - ❑ The geometric model created by the TokaMesh can be used to generate unstructured meshes of tokamak also (this needs Simmetrix GUI).
 - ❑ 3D meshes of tokamak



Tokamak Modeling and Meshing Software (TOMMS)

- ❑ More details about TOMMS

https://github.com/SCOREC/Fusion_Public

- ❑ User Guide

https://github.com/SCOREC/Fusion_Public/wiki/User-Guide-for-XGC-Meshing-Code

- ❑ Description of Control Parameters

https://github.com/SCOREC/Fusion_Public/wiki/List-of-input-parameters

- ❑ Test Cases (DIII-D, ITER, JET, LTX, Alcator C-Mod, KSTAR)

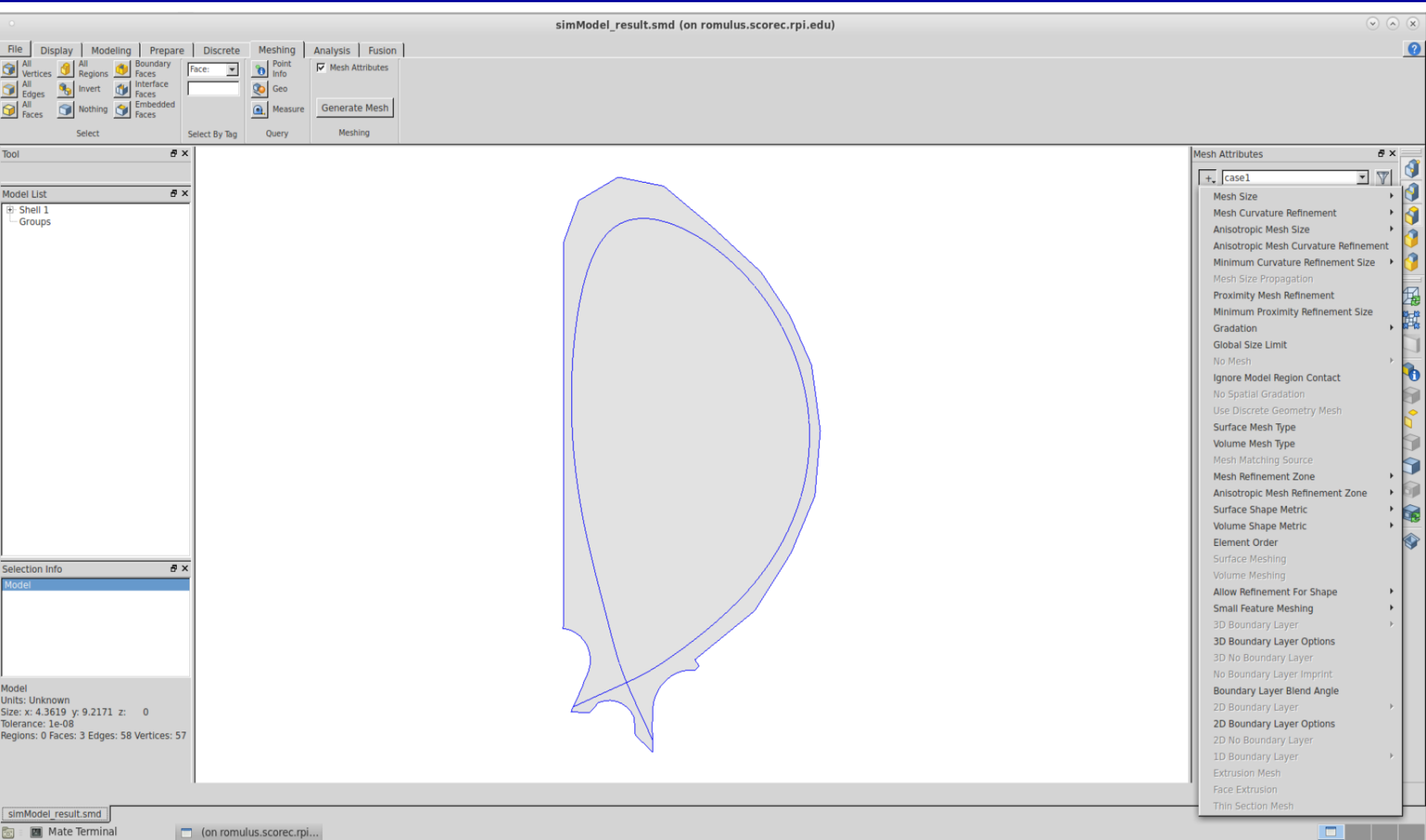
https://github.com/SCOREC/Fusion_Public/tree/master/samples



Inputs/Outputs

- ❑ Simmetrix Simmodsuite & SimModeler
- ❑ TOMMS
 - ❑ `/p/tsc/m3dc1/lib/SCORECLib/rhel7/intel2019u3-openmpi4.0.3/tomms/xgc_meshgen`
- ❑ Inputs
 - ❑ Geqdsk/eqd file
 - ❑ Control Parameter Input file
- ❑ Outputs
 - ❑ `simModel_result.smd`
 - ❑ `simMesh_result.sms`
 - ❑ `.ele`
 - ❑ `.node`
 - ❑ `.flx.aif`
 - ❑ `.smb`

Model



Mesh

