

NUCE 431W: Neutronics of a Fusion Plant

Weekly Progress Report

02/18/2026 - 02/25/2026

Project Manager(s): (Andrei Khodak) [REDACTED]

Submitter: (Rocco Lombardo) (ral5748@psu.edu)

| Milestones | Planned Date | Actual Date | Comments |
|--|--------------|-------------|---|
| Import .h5m geometry into OpenMC via DAGMC .h5m geometry converter | Feb/18/2026 | — | .h5m is now working. We can now import the geometry successfully. |

Accomplished This Week:

| General Description | Comments |
|---|---|
| stl_to_h5m converter working. | successfully configured stl_to_h5m converter to convert .stl of all parts to one .h5m file. |
| Reactor Geometry rebuilt with separate parts. | — |

Planned for Next Week:

| General Description | Comments |
|---------------------------------|--|
| Import geometry into OpenMC | Attempt to import the geometry into OpenMC via DAGMC |
| 2-D section view of the reactor | attempt to see the plasma source and the reactor via openmc plotting |