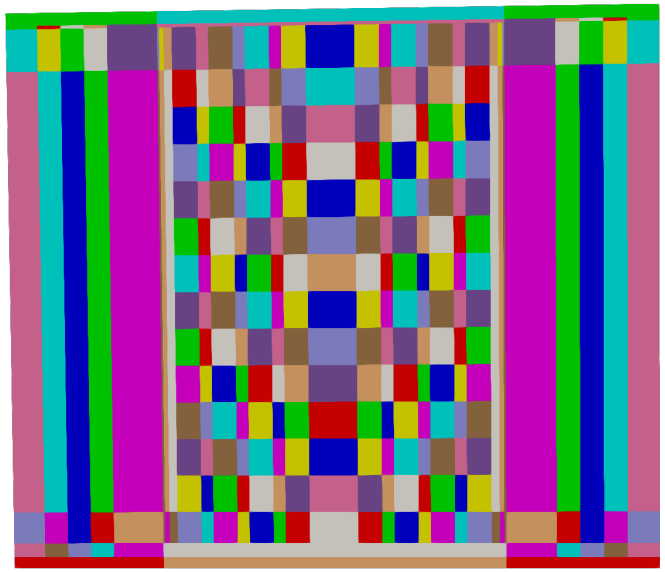
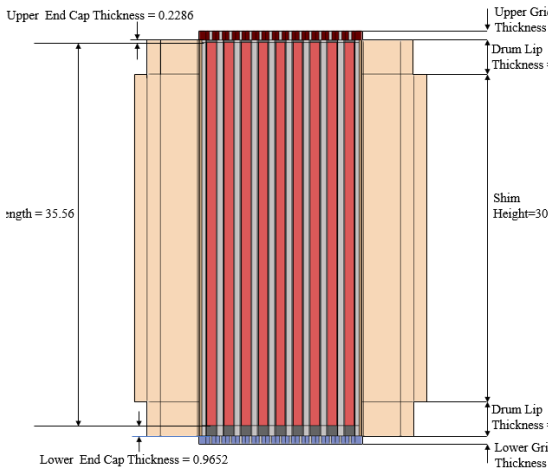
Event Planning

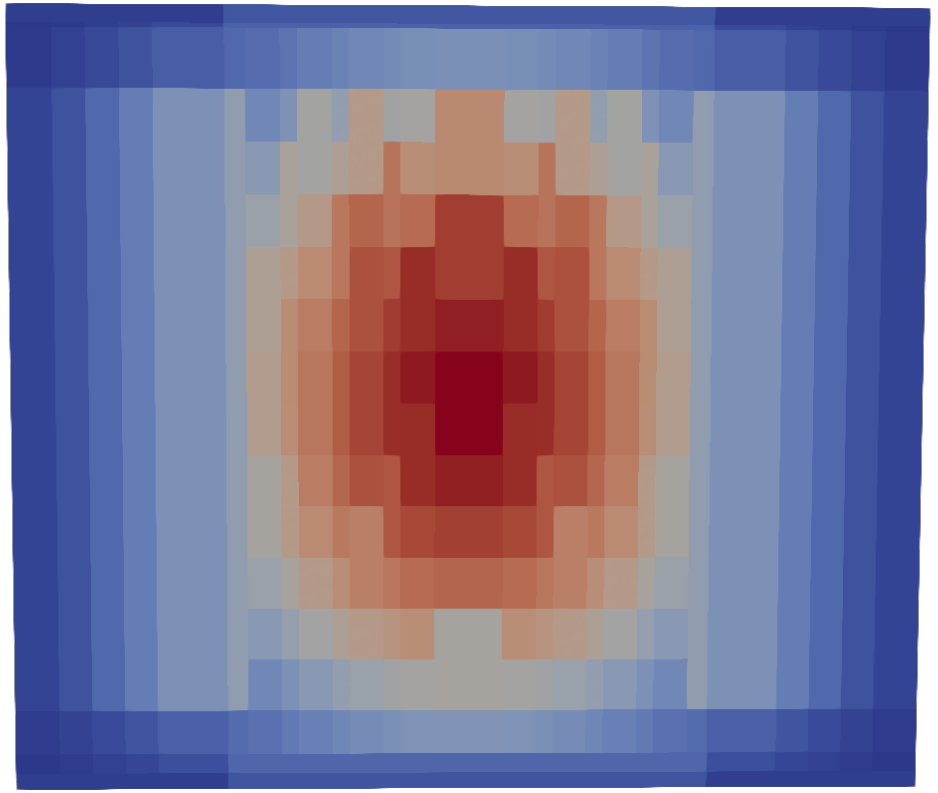
- Youth Retreat
  - When March 30th and 31st
  - Location: Somewhere in GA
    - Lodging: AirBNB, fundraising Carwash 2 Weeks from now (10/per car) (free airfreshner)
    - Transportation: Group Car Rides
  - Some Possible Activities
    - Hike, Sermon on the mountain, lunch, morning prayer (appropriate)
    - Dinner Goals: Whataburger, Canes
  - Workshops
    - Interactive Bible Study (Isaac) , Mental Health T&T (Yaira, Angela)
  - Activities
    - Trivia, Karaoke, Musical Games, Emoji Games, General Biblical Games
  - Servicio
    - Youth Devotional Acoustic (Jasmin, Yaira)
    - Dynamica: Pastora / Interactive Predica / H. Charo, H. Tapia
    - Testimonies
  - Themes:
    - La fe mueve montanas, hay dos caminos, caminar con dios, pacing yourself on your journey, subir al monte? Marcando el tempo

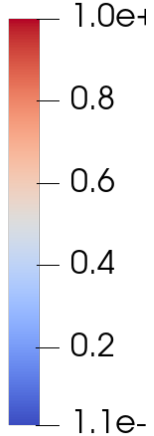
Mini Reunions

- Whoever is Hosting provides refreshments
- ”Food/Social” time 1hr~1hr 30 min
  - Up to the host: activities, games, movie night, make your own pizza night, pasta night, I love pho night, Whataburger night, park night
- ”Church” time 30 min
  - Small devotional – 10 min
  - Small biblical discussion – 15 min
- Evangelistic Focus
  - Invite new people
- Volunteer/Votes/Raffle who is hosting next is decided at the end of each meeting (April 5th) 1st Volunteer Jasmine, 2nd Volunteer Nati




Upper End Cap Thickness = 0.2286
Upper Gri
Thickness
Drum Lip
Thickness
ngth = 35.56
Shim
Height=30
Drum Lip
Thickness
Lower Gri
Thickness
Lower End Cap Thickness = 0.9652




1.0e+
0.8
0.6
0.4
0.2
1.1e-

$$\sigma(\vec{r},u) = \sigma_g(\vec{r}) + \delta(\vec{r},u) \tag{1}$$

where

$$\sigma_g(\vec{r}) = \frac{\int_g du\sigma(\vec{r},u)\phi(\vec{r},u)}{\int_g du\phi(\vec{r},u)} \tag{2}$$

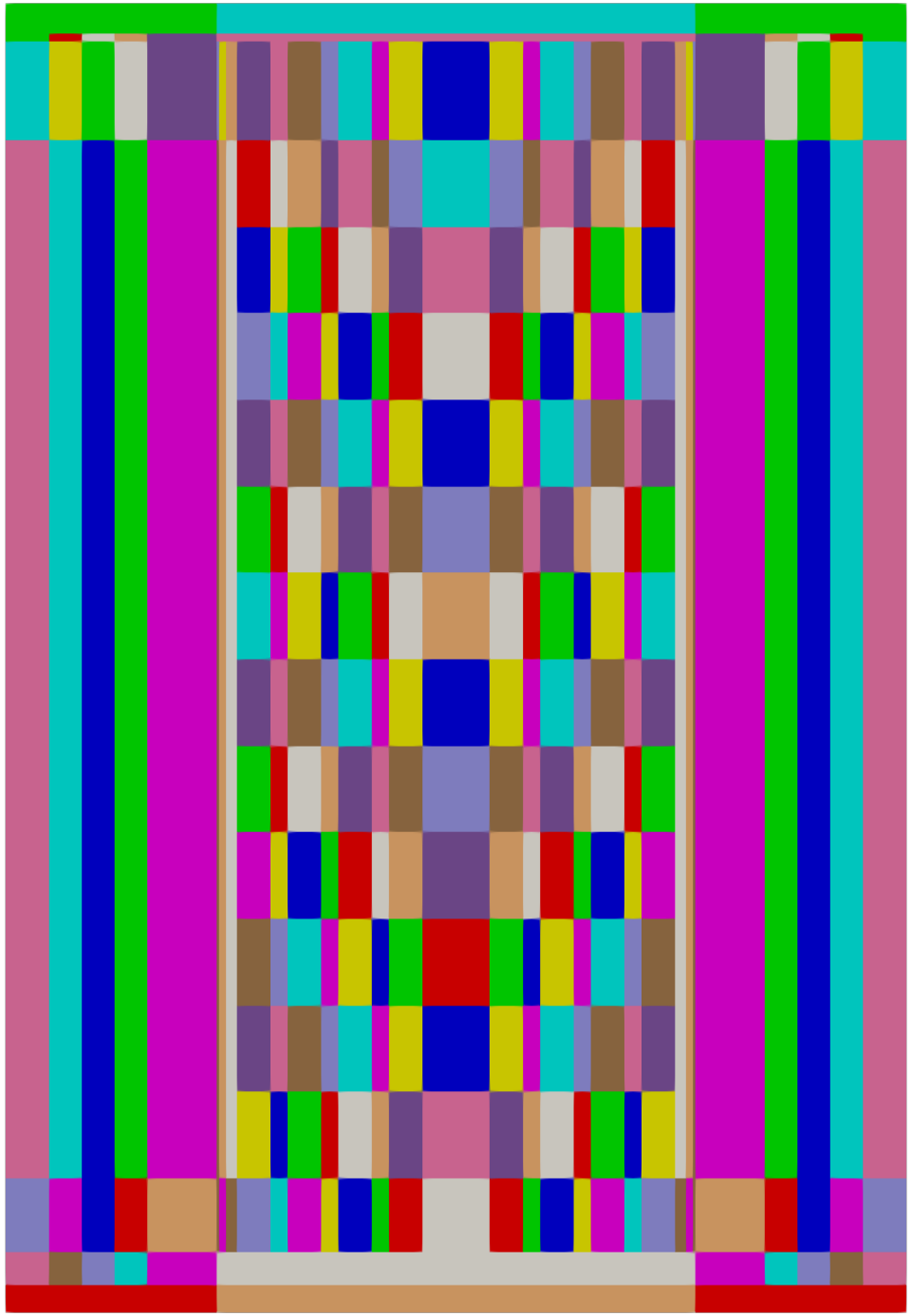
$$\begin{aligned}\delta_{ng}(\vec{r},\hat{\Omega})\Psi_{0g}(\vec{r},\hat{\Omega}) = \sum_{l=0}^{\infty}\sum_{m=-l}^{l}\int_g du(\sigma(\vec{r},u) \\ - \sigma_g(\vec{r}))w(u)\xi_n(u)Y_{lm}(\hat{\Omega}) \\ \times \int_{4\pi} d\hat{\Omega}'\Psi(\vec{r},\hat{\Omega}',u)Y^*_{lm}(\hat{\Omega}')\end{aligned} \tag{8}$$

This is then simplified to the following equation:

$$\delta_{ng}(\vec{r},\hat{\Omega})\Psi_{0g}(\vec{r},\hat{\Omega}) = \sum_{l=0}^{\infty}\sum_{m=-l}^{l}\delta^{lm}_{ng}(\vec{r})Y_{lm}(\hat{\Omega})\phi_g(\vec{r}) \tag{9}$$

$$\delta^{lm}_{ng}(\vec{r}) = \frac{\int_g du(\sigma(\vec{r},u) - \sigma_g(\vec{r}))w(u)\xi_n(u)\int_{4\pi} d\hat{\Omega}'\Psi(\vec{r},\hat{\Omega}',u)Y^*_{lm}(\hat{\Omega}')}{\int_g du\int_{4\pi} d\hat{\Omega}'\Psi(\vec{r},\hat{\Omega}',u)} \tag{10}$$

$$\begin{aligned}&\hat{\Omega}\cdot\nabla\Psi_{ng}(\vec{r},\hat{\Omega}) + \sigma_g(\vec{r})\Psi_{ng}(\vec{r},\hat{\Omega}) \\ &= \sum_{g'=1}^{G}\sum_{l=0}^{\infty}\sum_{m=-l}^{l}\frac{Y^*_{lm}(\hat{\Omega})}{4\pi}\sigma^{ng'\to g}_{slm}(\vec{r})\phi_{lmg'}(\vec{r}) + \sum_{g'=1}^{G} \\ &\quad\times\frac{\chi_{ng}(\vec{r})}{4\pi k}\nu\sigma_{fg'}(\vec{r})\phi_{g'}(\vec{r}) - \sum_{l=0}^{\infty}\sum_{m=-l}^{l}\delta^{lm}_{ng}(\vec{r})Y_{lm}(\hat{\Omega})\phi_g(\vec{r})\end{aligned} \tag{11}$$

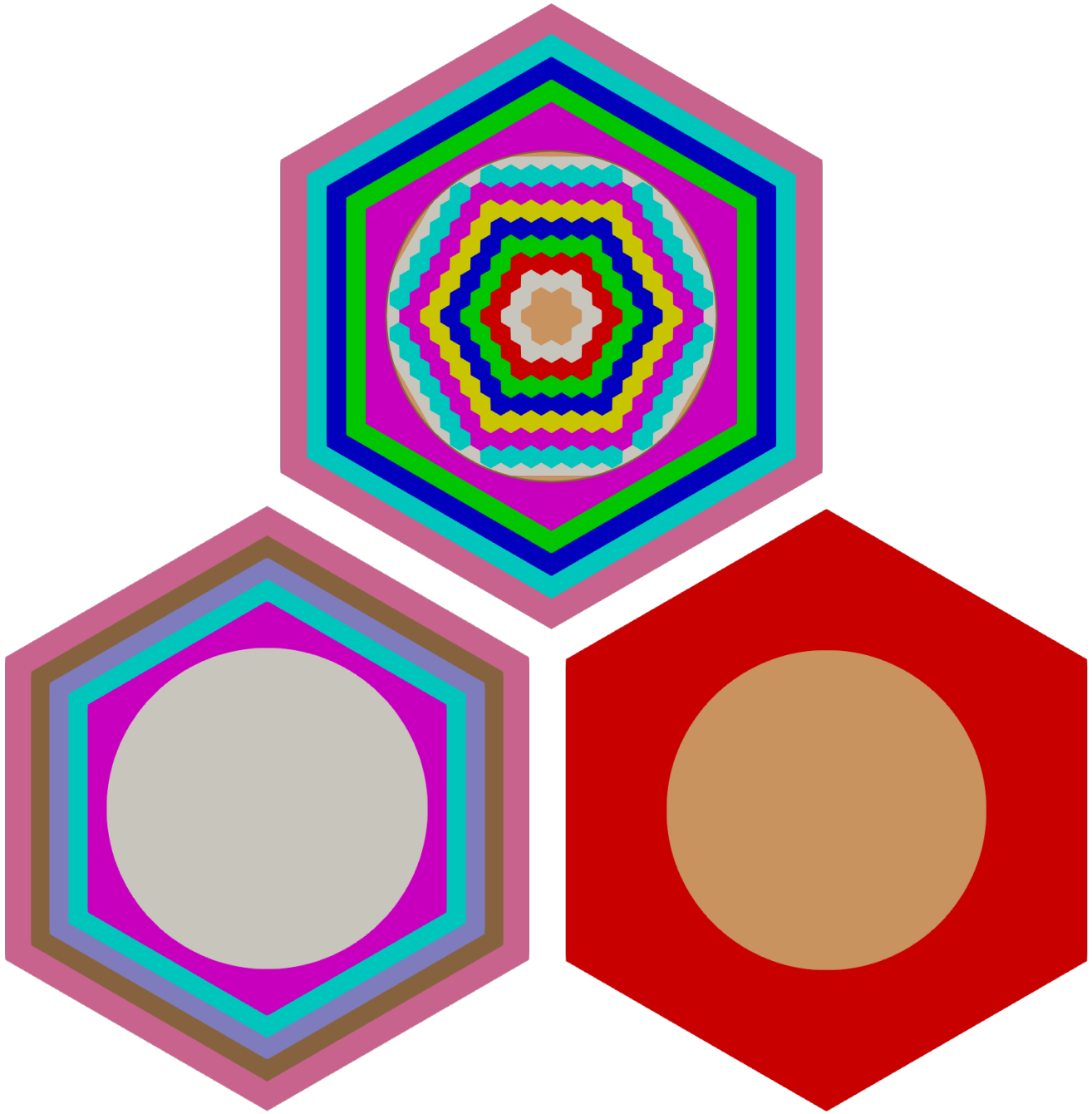


Upper Grid Plate Region (L7)
Upper Endcap Region (L6)
Upper Active Fuel Stationary Reflector Region (L5)

Active Fuel & Control Shim Region (L4)

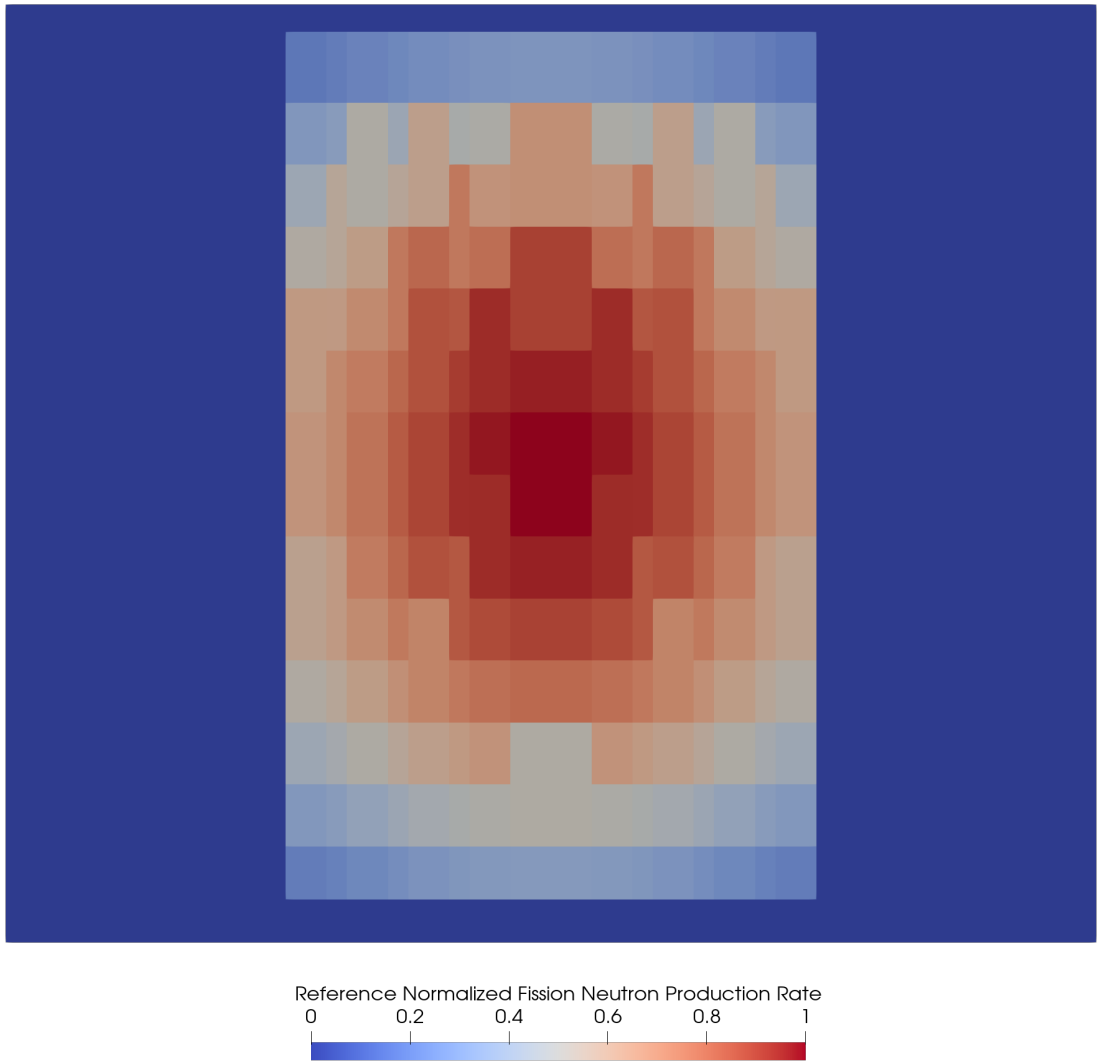
Lower Active Fuel Stationary Reflector Region (L3)
Lower Endcap Region (L2)
Lower Grid Plate Region (L1)

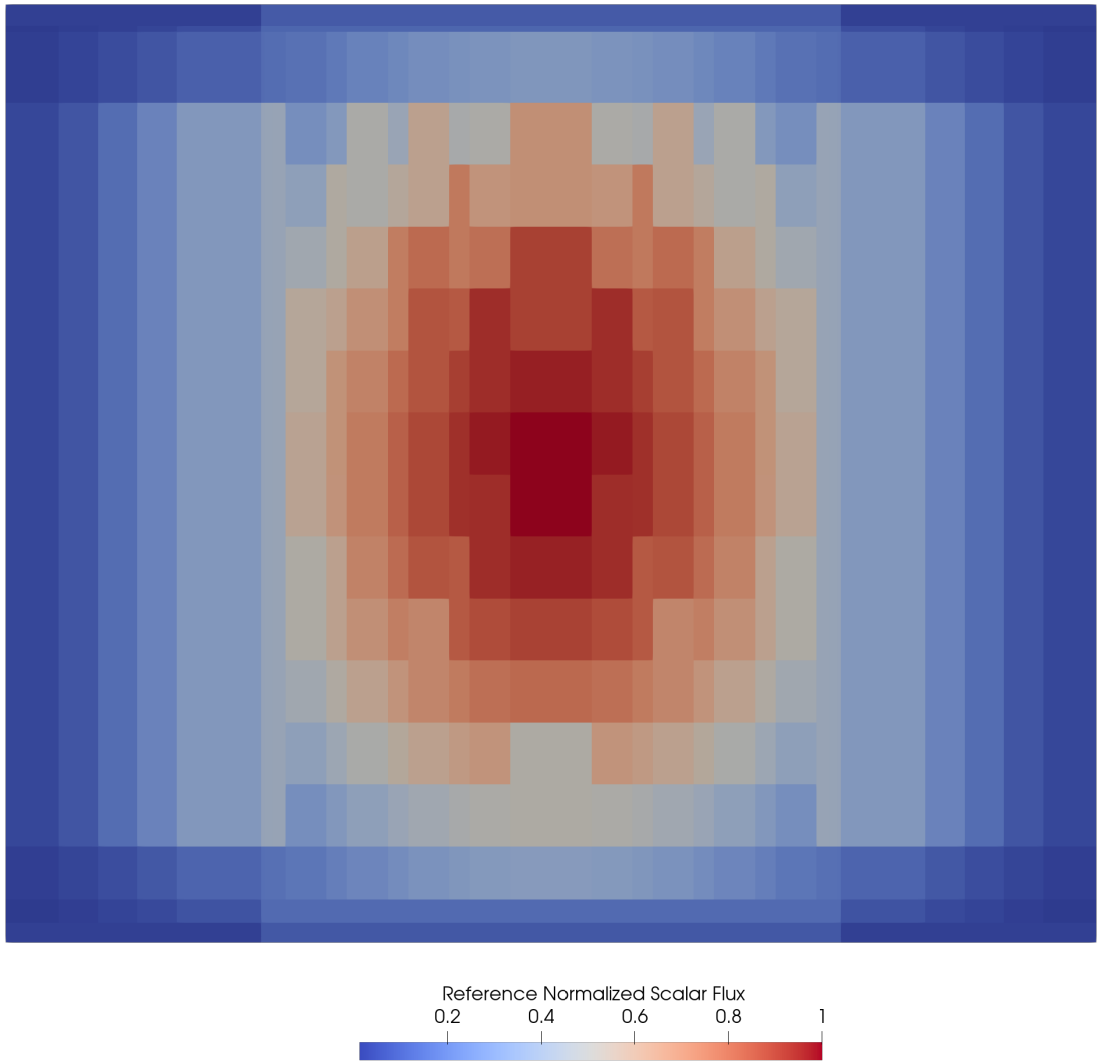
Active Fuel Region (R1)



Endcap Region (R2)

Grid Plate Region (R3)

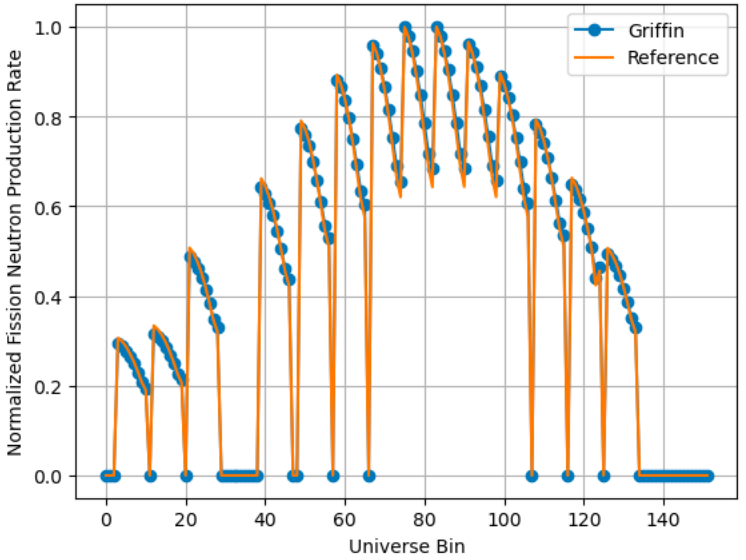

Reference Normalized Fission Neutron Production Rate
0
0.2
0.4
0.6
0.8
1


Reference Normalized Scalar Flux
0.2
0.4
0.6
0.8
1


Reference Normalized Fission Neutron Production Rate
0
0.2
0.4
0.6
0.8
1


Reference Normalized Scalar Flux
0.2
0.4
0.6
0.8
1

Normalized Fission Neutron Production Rate



Normalized Scalar Flux