

### **Ryan:**

- Trying to create an intergenerational story
- Looked at best individual from current run
  - Identified the parents of the best individual
  - Best detector did not produce any children
- Alex and Ryan discussed potential metrics to further flesh out this story

### **Audrey / Bailey:**

- Worked with Alex to integrate code that produces images of the best, middle, and worst-performing individuals in a generation
- Monitoring current run to see if there are any bugs in the code
  - Photos being produced in wrong directory
    - Addressed during the meeting, should be fixed. These results will continue to be monitored for errors
- Discussed some next steps
  - Learning to run the loop
  - Implementing ice into the XF simulations
  - Working with Lydon to automate rainbow plots

### **Ethan / Aidan:**

- Both Ethan and Aidan a couple of midterms come up, so they were not able to work on the project a lot this week
- Working on a 4x4 plot in Mosaic

### **Alex:**

- Discussed putting a cutoff on XF simulated neutrinos to lower computational resource demand

- Could allow us to simulate more events / run faster
  - Would potentially reduce the error associated with these simulations
- Discussed paper comments
  - Fixed errors with the units on an equation from the paper

**Dennis:**

- Gave a talk about raytracing
- Discussed several plots that he was making / editing
  - Removed ~500 points from a previous plot, plans to send updated plot into Slack
  - Asked about other plots that he could work on making
    - Alex described a histogram of the weights of events
    - Dennis had already made a similar plot already
      - Had many entries near a weight of 1, but very few near 0