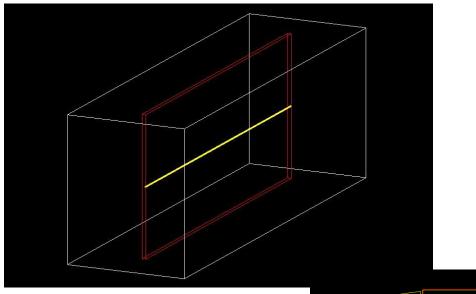
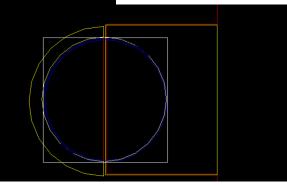
# DCV Simulation <sup>최재민</sup>

## Geometry Test

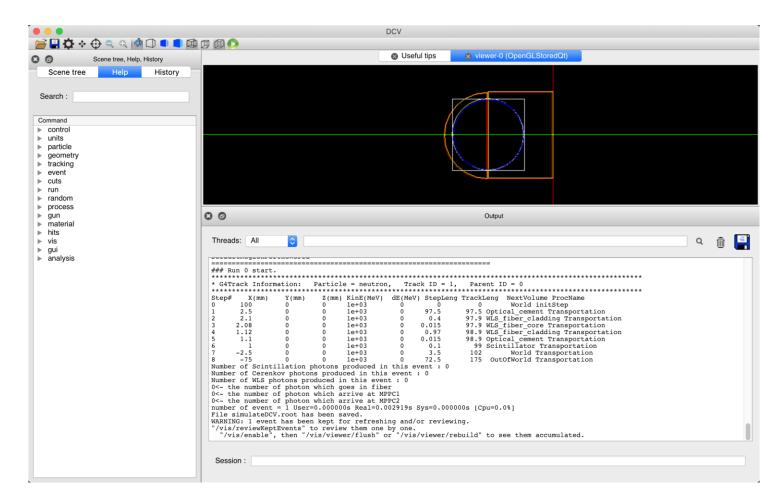


 In visualization, it can be seen that there is a gap between two slide, tub and box which are drawn in yellow color.



• Figure of enlarged fiber section

### Geometry Test



- By shooting neutron, we can see where the neutron passes.
- And we can confirm that there is no gap between the two solids.

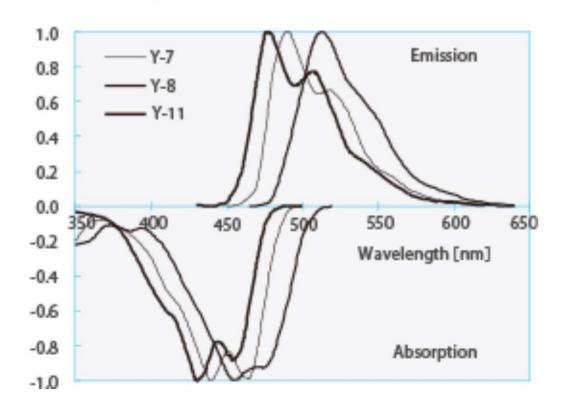
### WLS Process Test

- WLS Process consists of two process. One is absorption, and the other is emission.
- Absorption process is the process by which electron absorbs light and be excited.
- Emission process is the process by which electron emits the photon and be stable.

### WLS Process Test

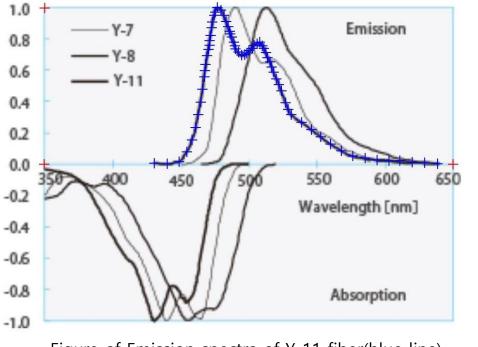
- First of all, to check that emission process works well, we shot photons of 430nm wavelength.
- In order to see the exact emission wavelength, it is necessary to emit light that is larger than the minimum emission wavelength.
- We can get the wavelength of photon produced in WLS fiber by making use of sensitive detector of WLS fiber.

• Y-7, Y-8, Y-11

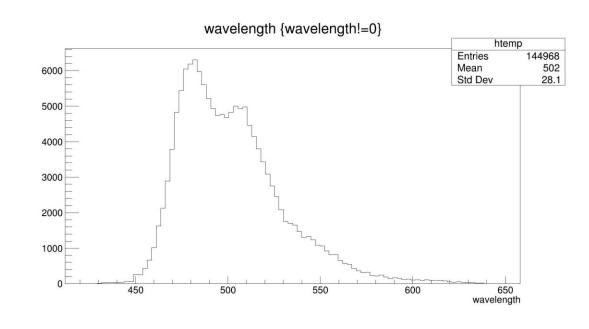


#### WLS Process Test

• Y-7, Y-8, Y-11



• Figure of Emission spectra of Y-11 fiber(blue line)



- Figure of wavelength of photons produced OpWLS Process
- By comparing wavelength graph with emission spectra, we can confirm that OpWLS emission process works well.