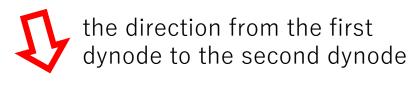
Status Report

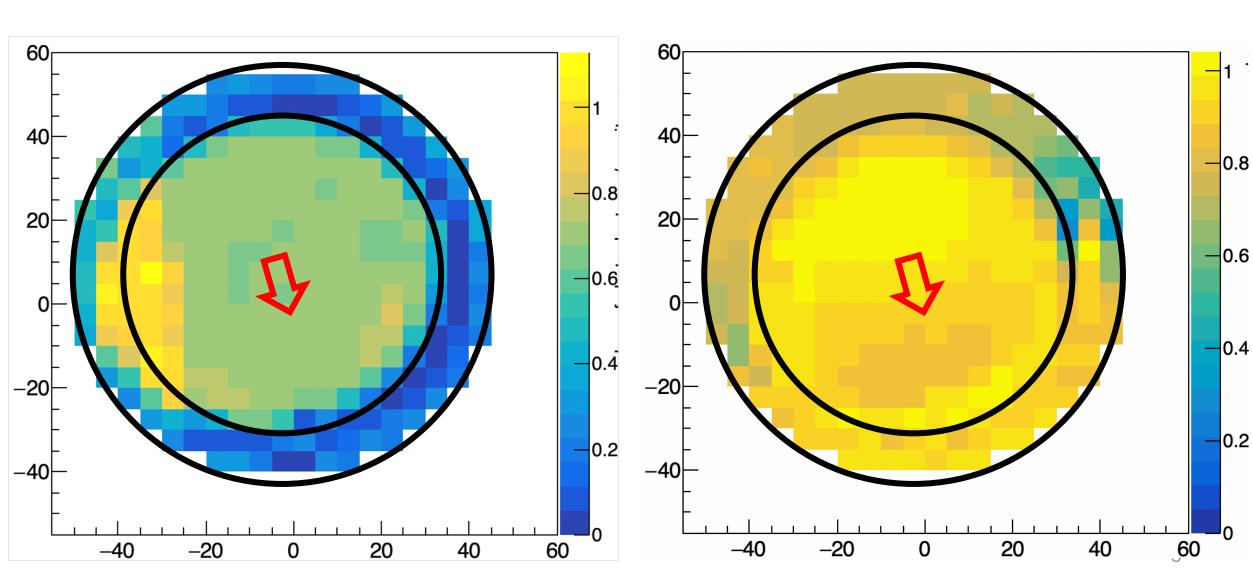
Isao Sashima Nov. 27, 2020 mPMT meeting

- created a new reflector using 3D printer
- measured with the PMT rotated 180 degrees to check position dependency
- checking how to move the stand while removing the center of PMT

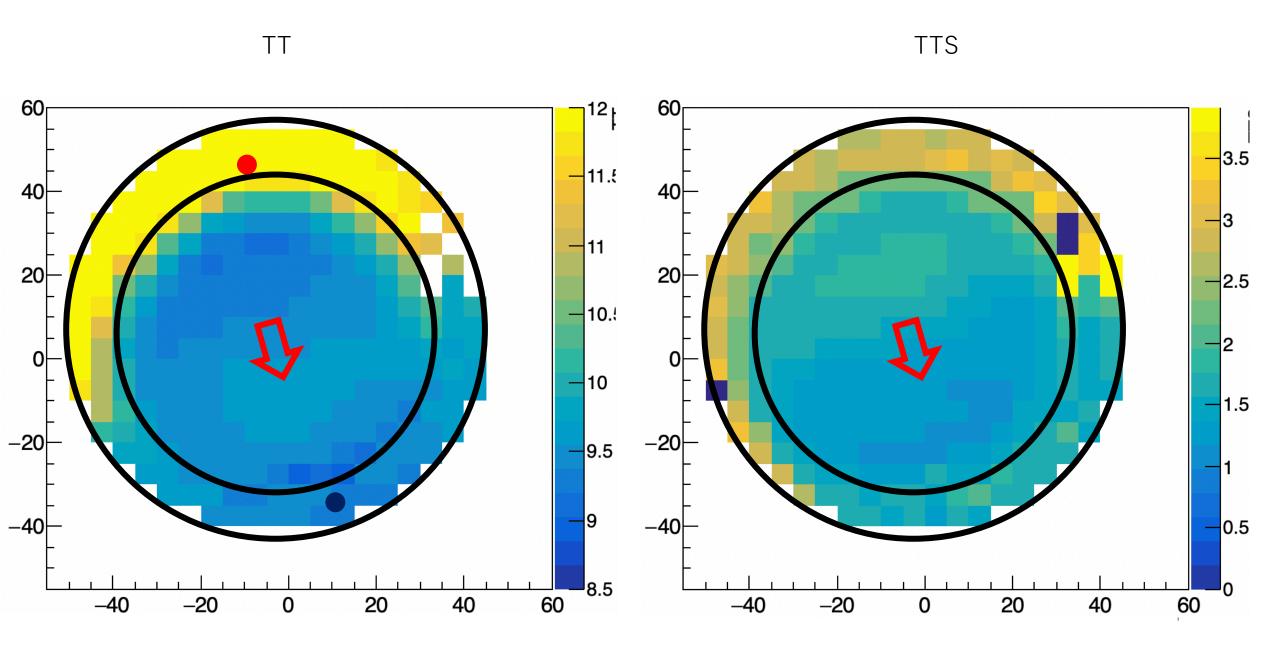
with 51° , 18 mm reflector , 529 points efficiency



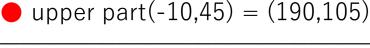
gain

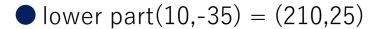


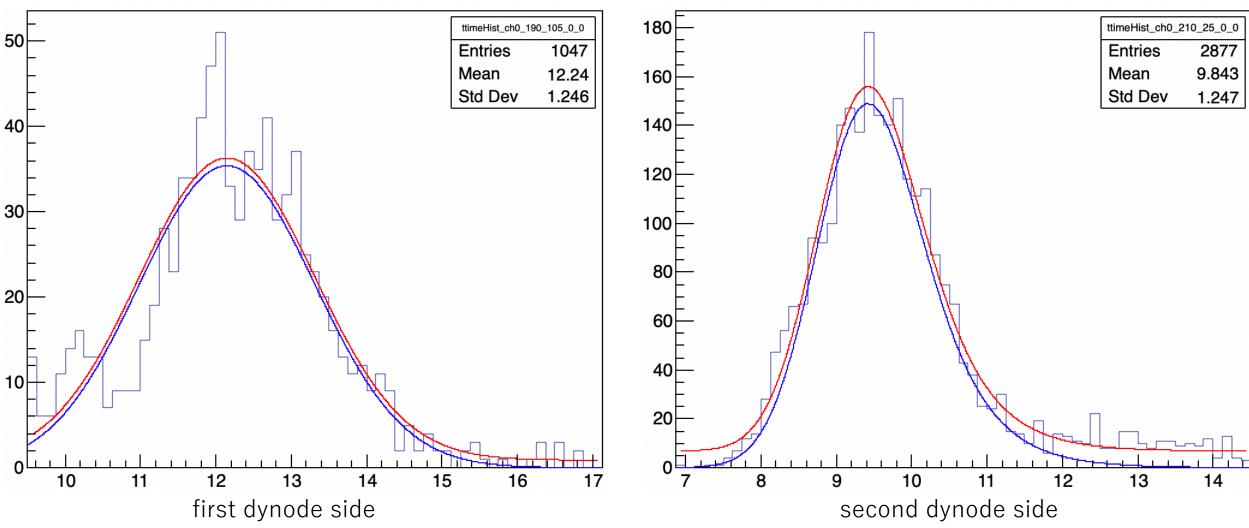
TT on the reflector is larger on the first dynode side



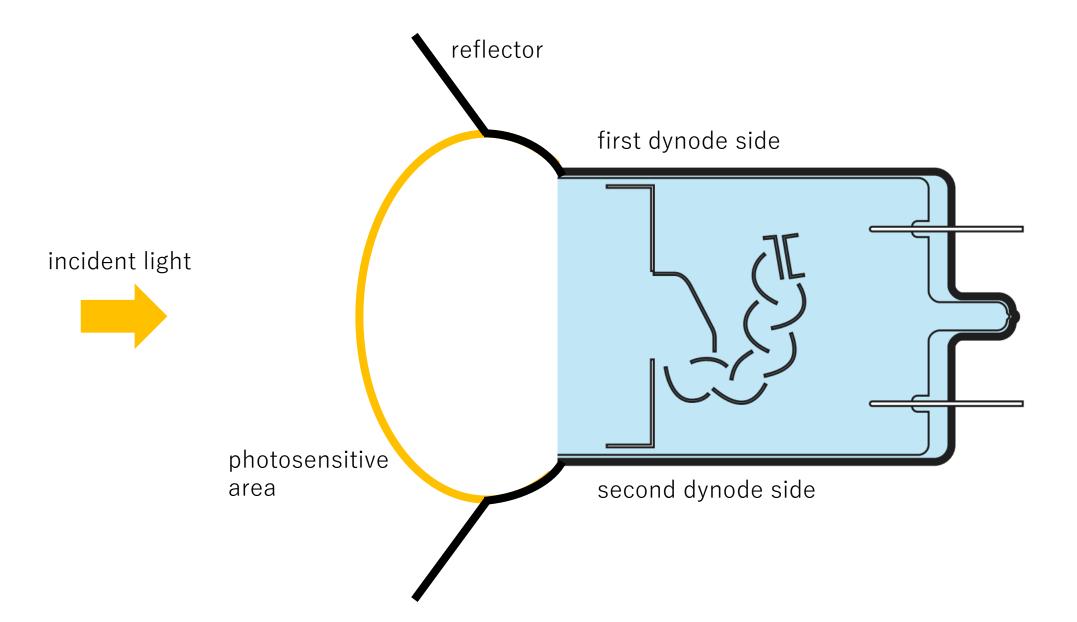
 \bullet upper part(-10,45) = (190,105)



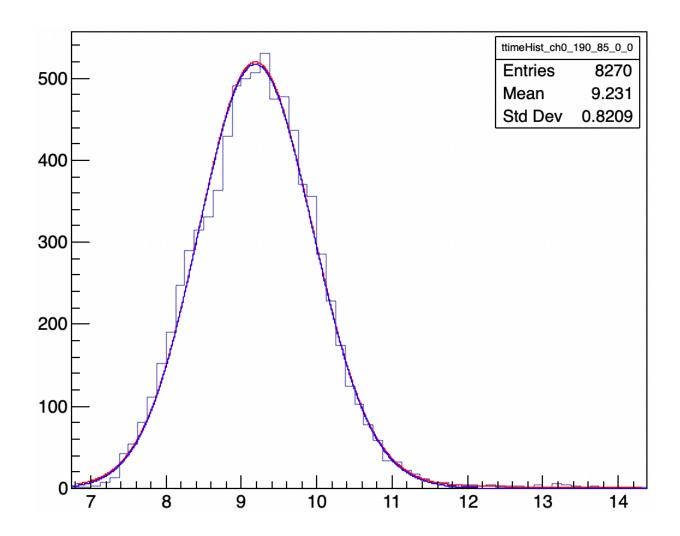


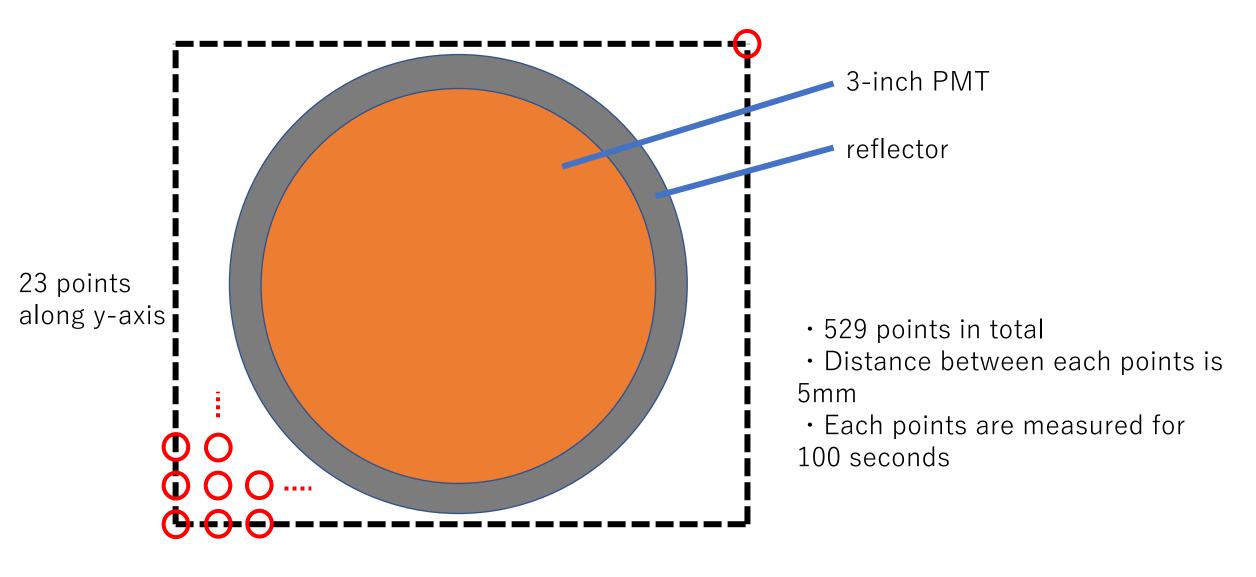


· As in the case without the reflector, suspected that there is a correlation with the position of the dynode.



Backup

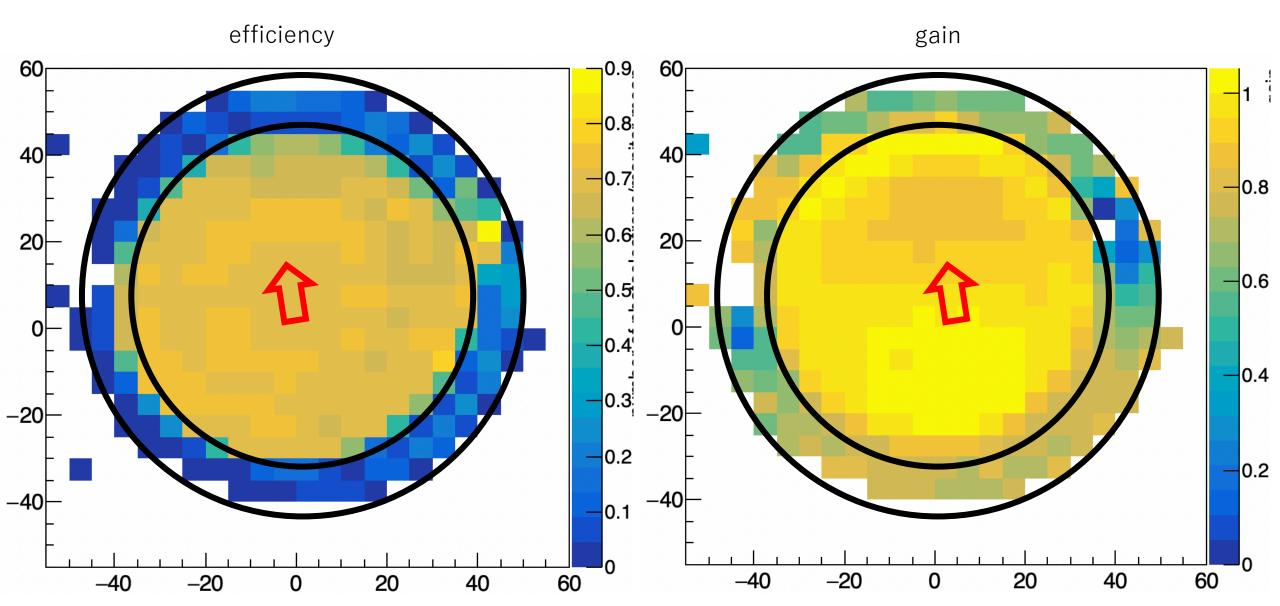


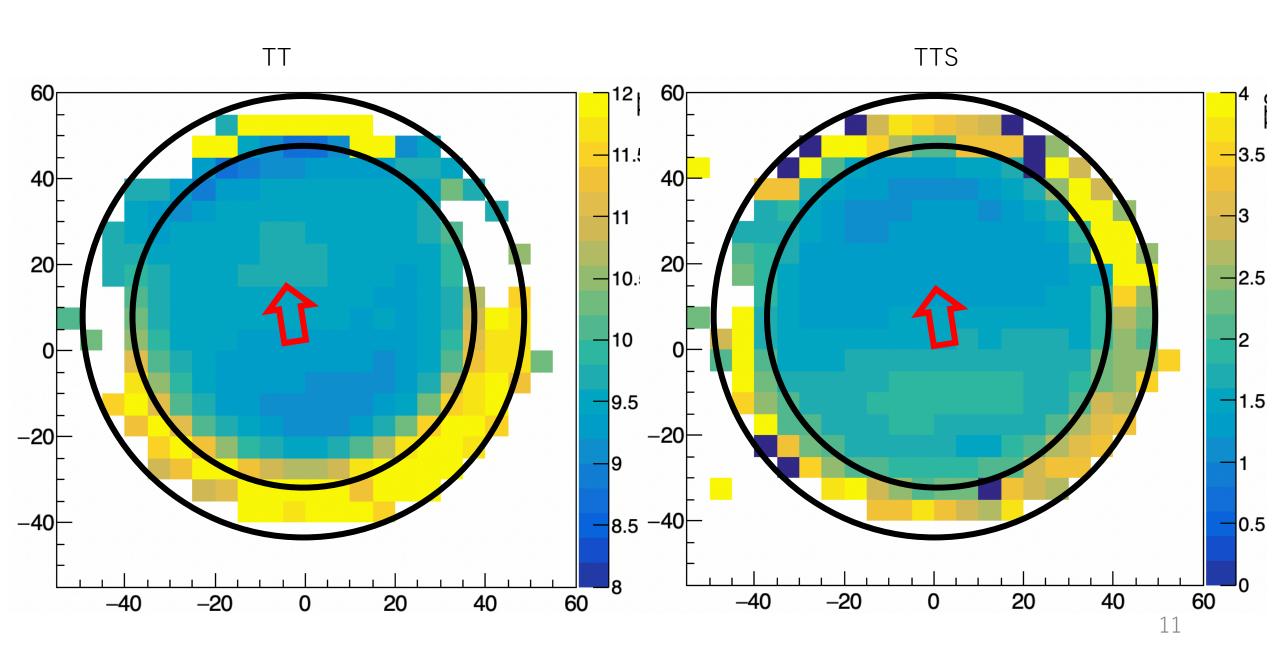


23 points along x-axis

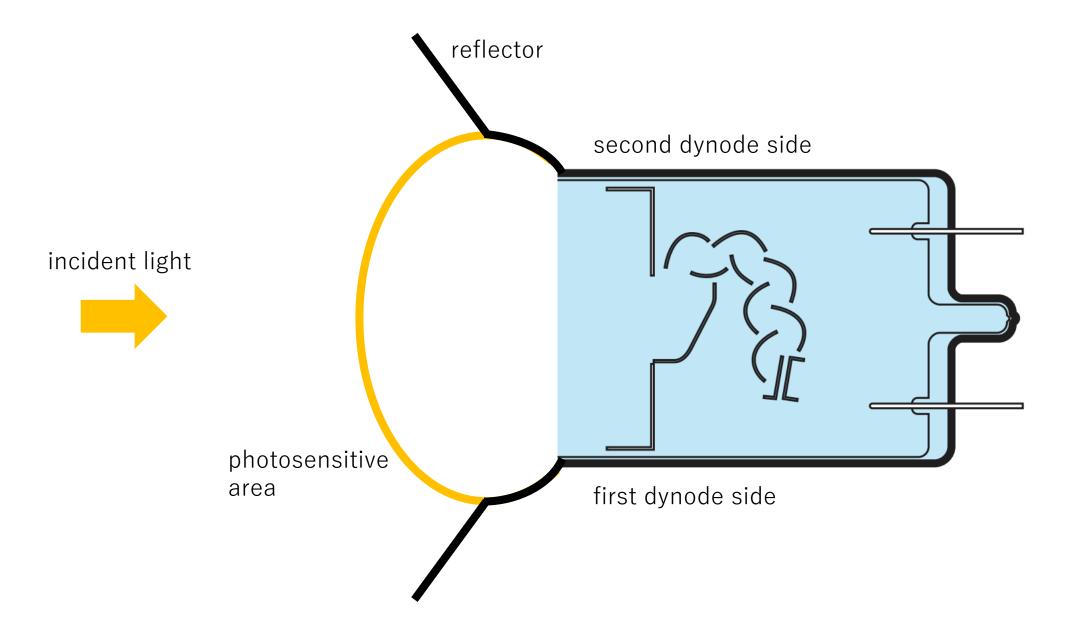
with 51°, 9mm reflector, 529 points

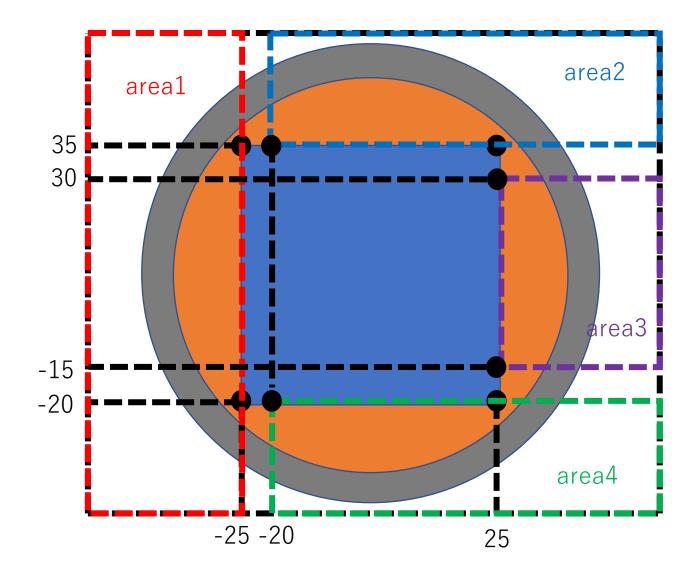
the direction from the first dynode to the second dynode





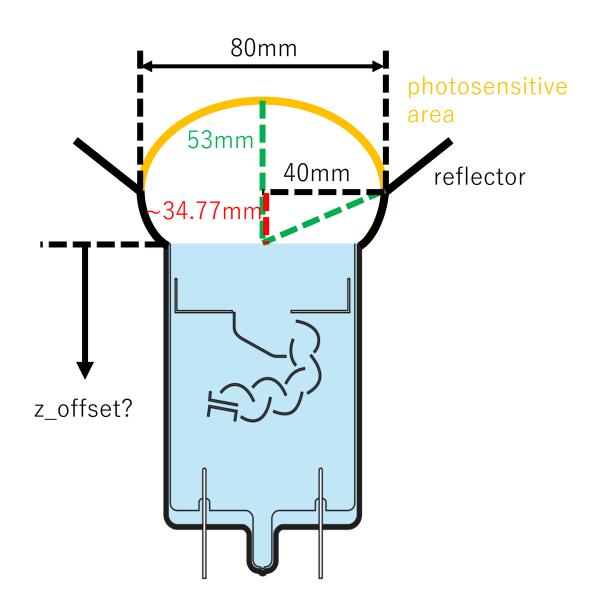
· As in the case without the reflector, suspected that there is a correlation with the position of the dynode.





3"PMT R14374





 \rightarrow z_offset = -34.77mm?

WCSimDetectorConfigs.cc

angle = 51° means the one used at IPMU

When generated with the above condition, the process was aborted.

Error message→

```
------ EEEE ----- G4Exception-START ----- EEEE -----

*** G4Exception : GeomMgt0002
    issued by : G4SmartVoxelHeader::BuildNodes()

PANIC! - Overlapping daughter with mother volume.
    Daughter physical volume reflectorWCPMT
    is entirely outside mother logical volume WCPMT !!

*** Fatal Exception *** core dump ***

**** Track information is not available at this moment

**** Step information is not available at this moment

------ EEEE ------ G4Exception-END ------ EEEE ------

*** G4Exception: Aborting execution ***

Pボートしました
```

: not overlapped