

Teambuilding 29.04.2024



*What I did at GIF++ for 2 weeks?*

jules.vandenbroeck@cern.ch



Teambuilding 29.04.2024



*We looked at muons! (and gamma's)*

[jules.vandenbroeck@cern.ch](mailto:jules.vandenbroeck@cern.ch)



where is GIF++?

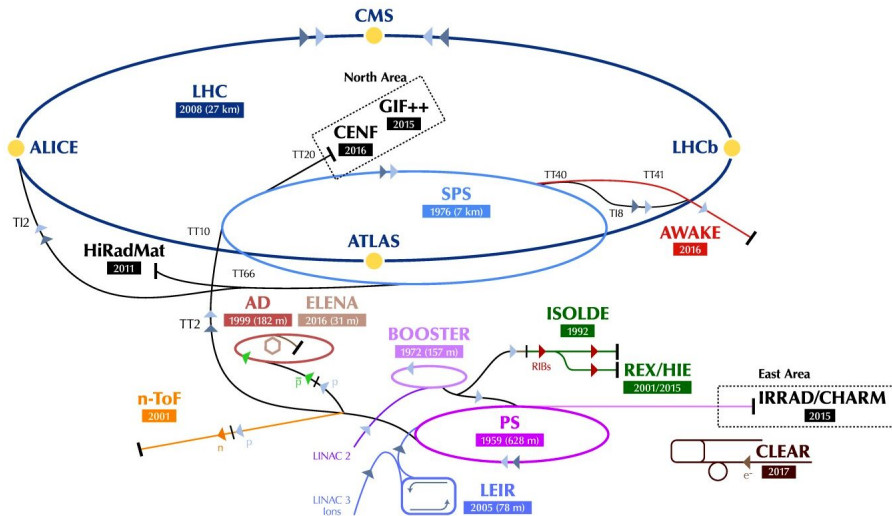


CERN radiation facility (EHN1)



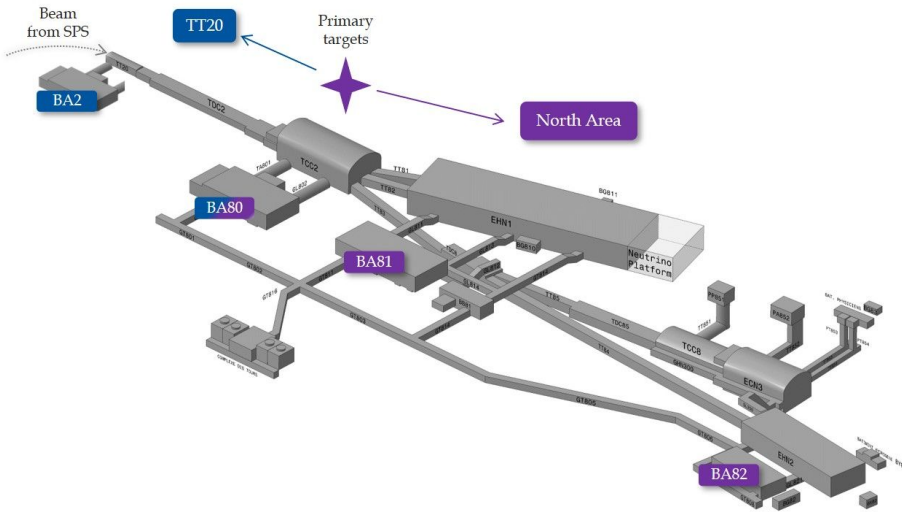
# where is GIF++?

CERN radiation facility (EHN1)  
→ SPS primary proton beam



# where is GIF++?

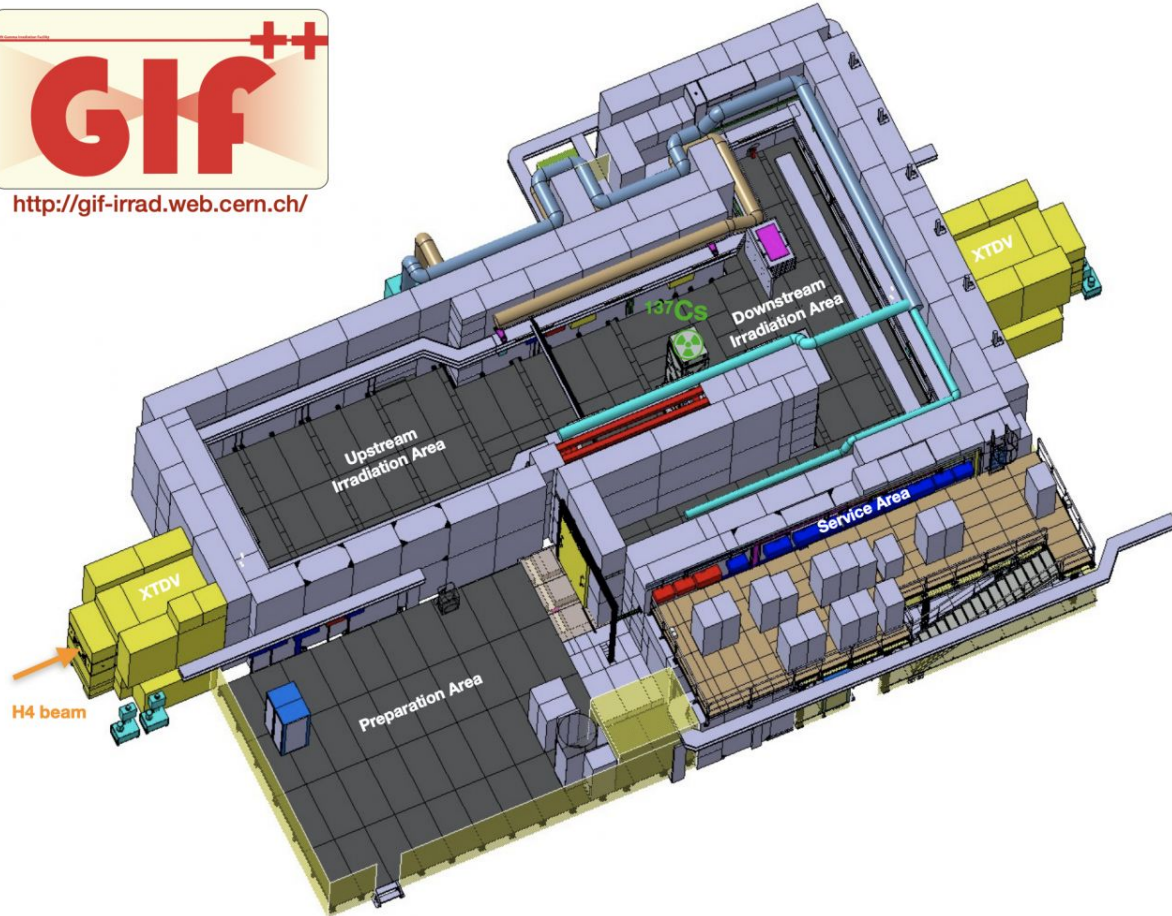
- CERN radiation facility (EHN1)
- SPS primary proton beam
- collide with fixed target (Be)
- secondary particle beam (H4 beam)



# What is GIF++?



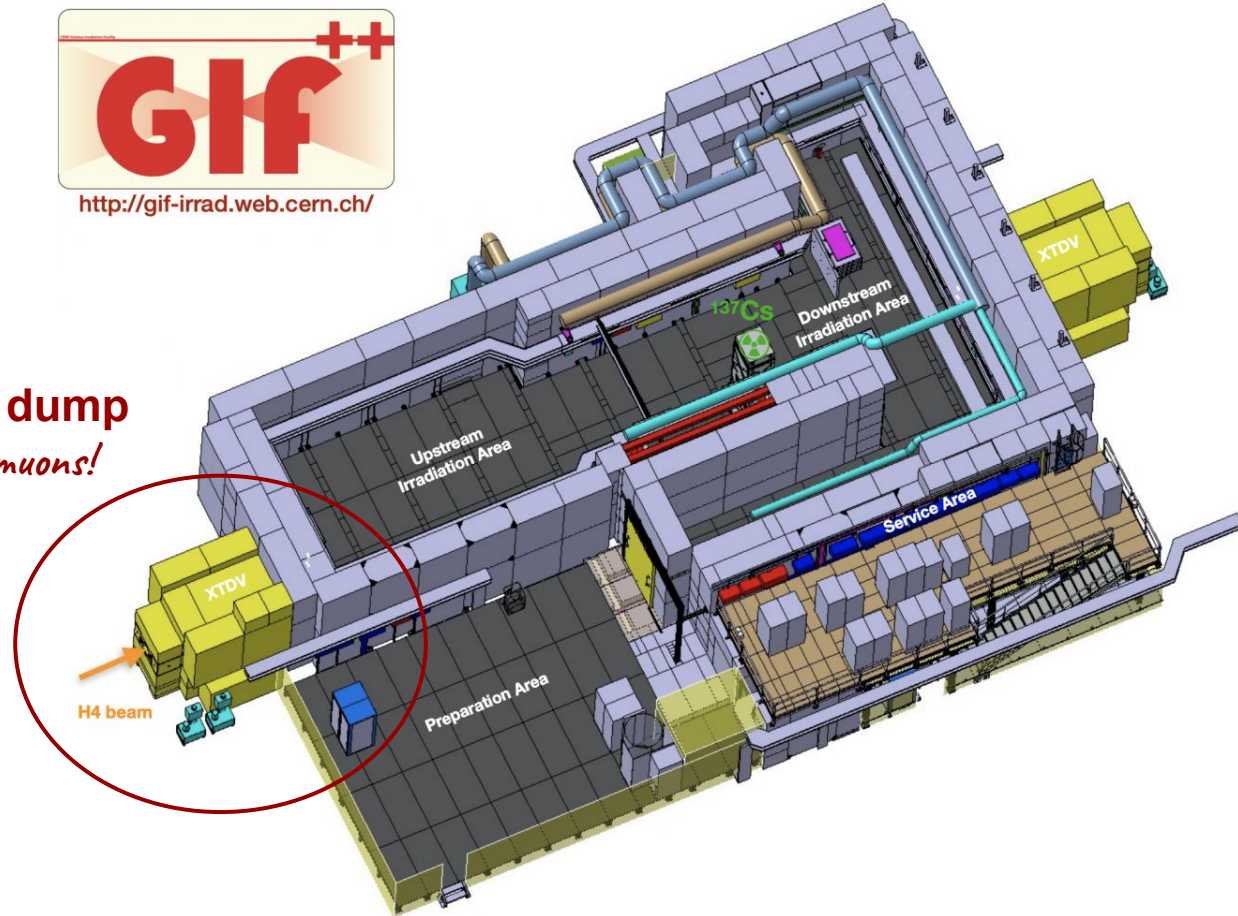
<http://gif-irrad.web.cern.ch/>



# What is GIF++?



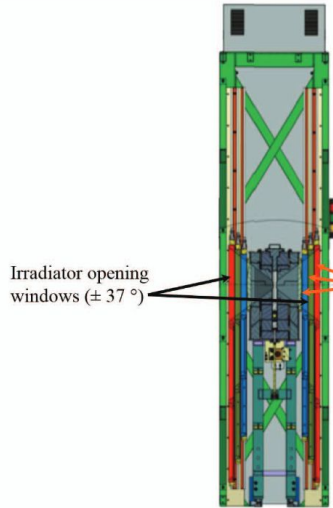
**beam dump**  
→ *yey muons!*



# What is GIF++?

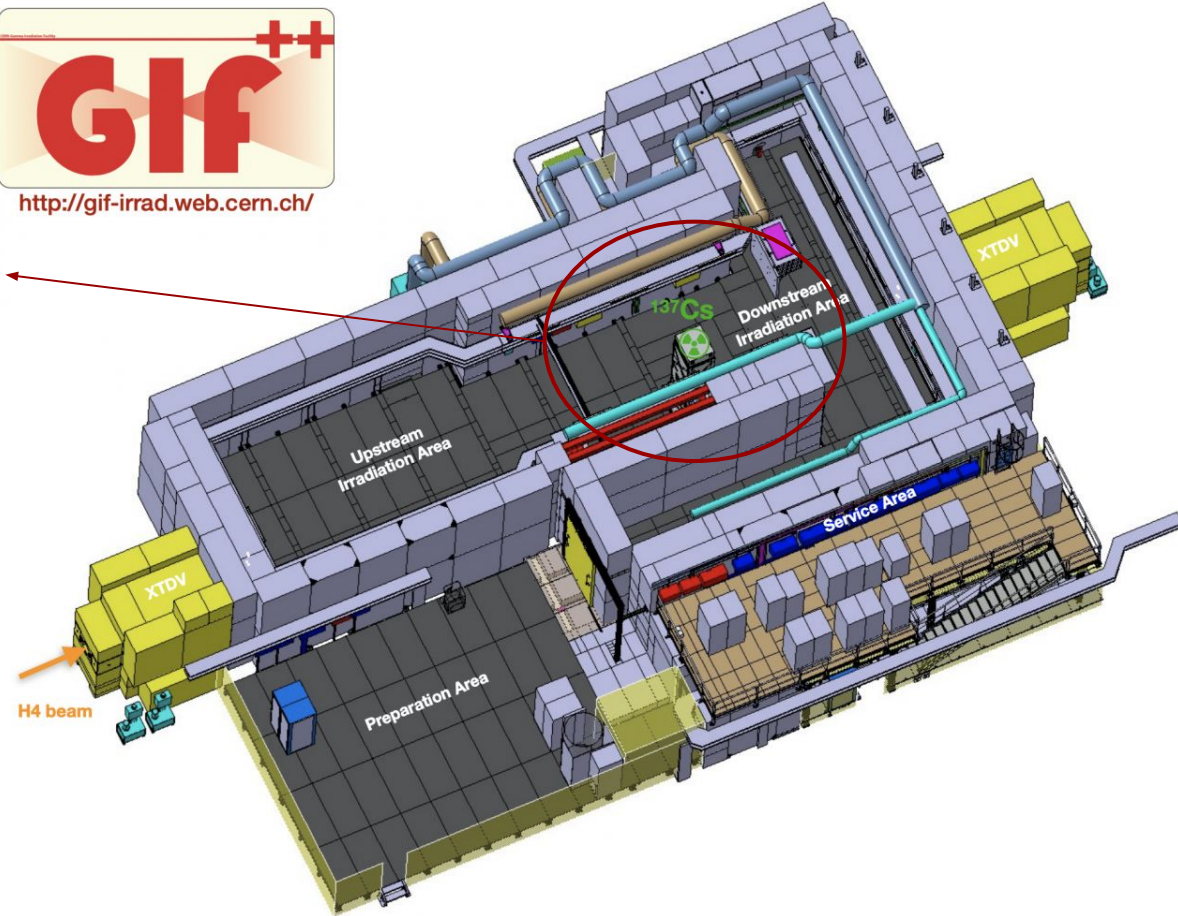


**$^{137}\text{Cs}$  radiation source**  
→ test under HL-LHC conditions



Irradiator opening  
windows ( $\pm 37^\circ$ )

The three plates hosting the six attenuation lenses used to modulate the gamma intensity for each irradiation area independently.

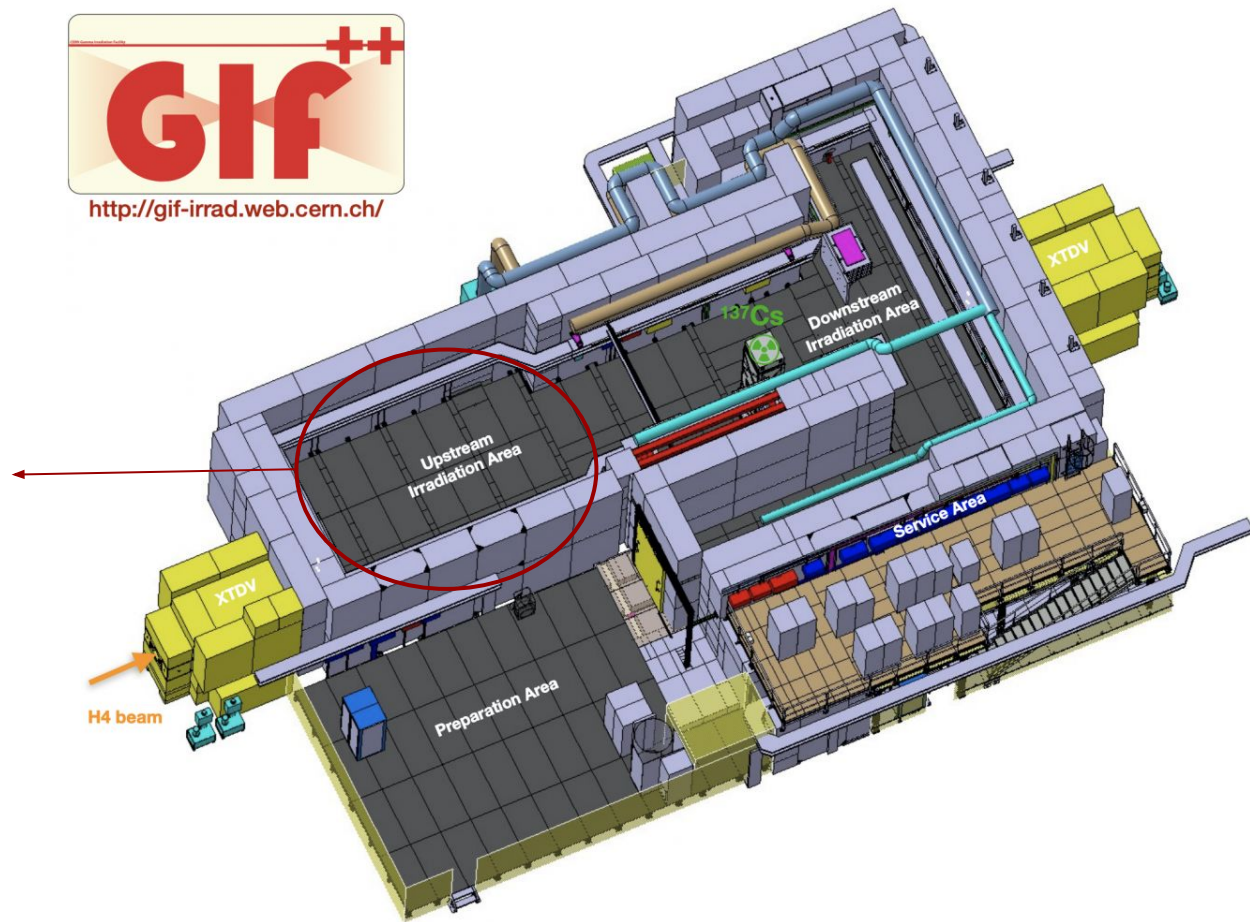
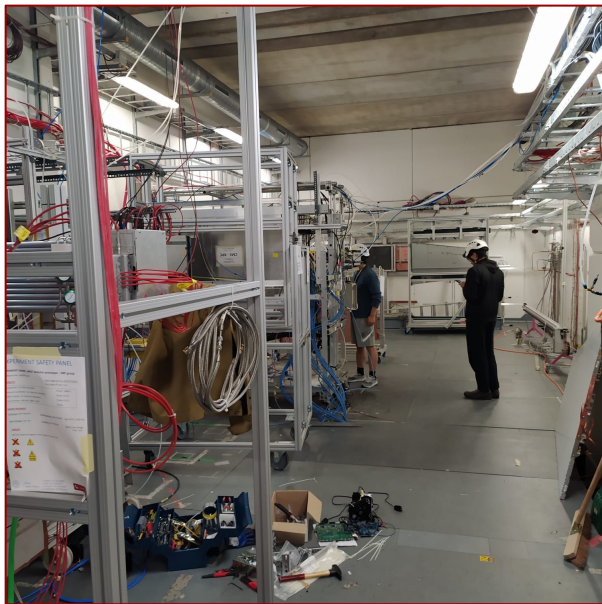




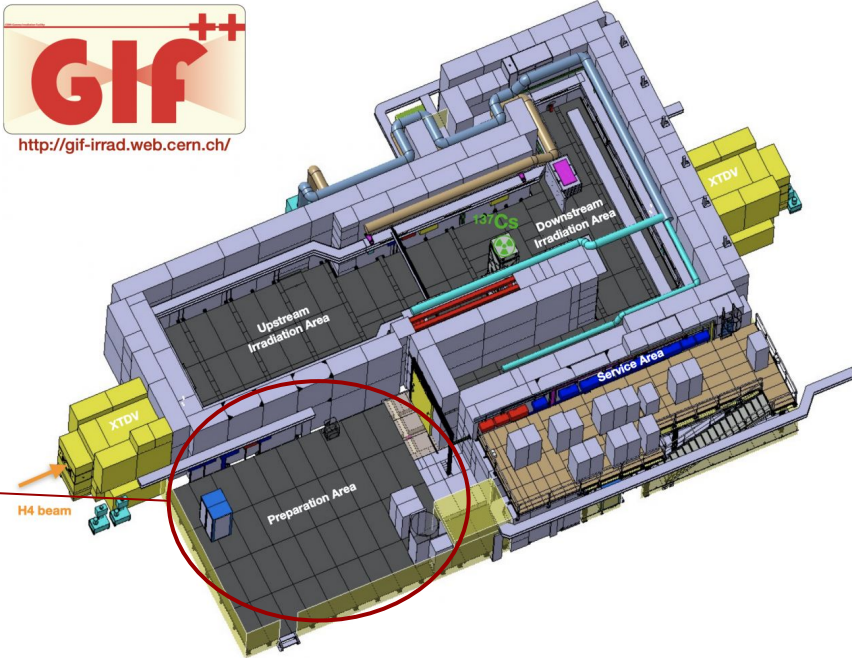
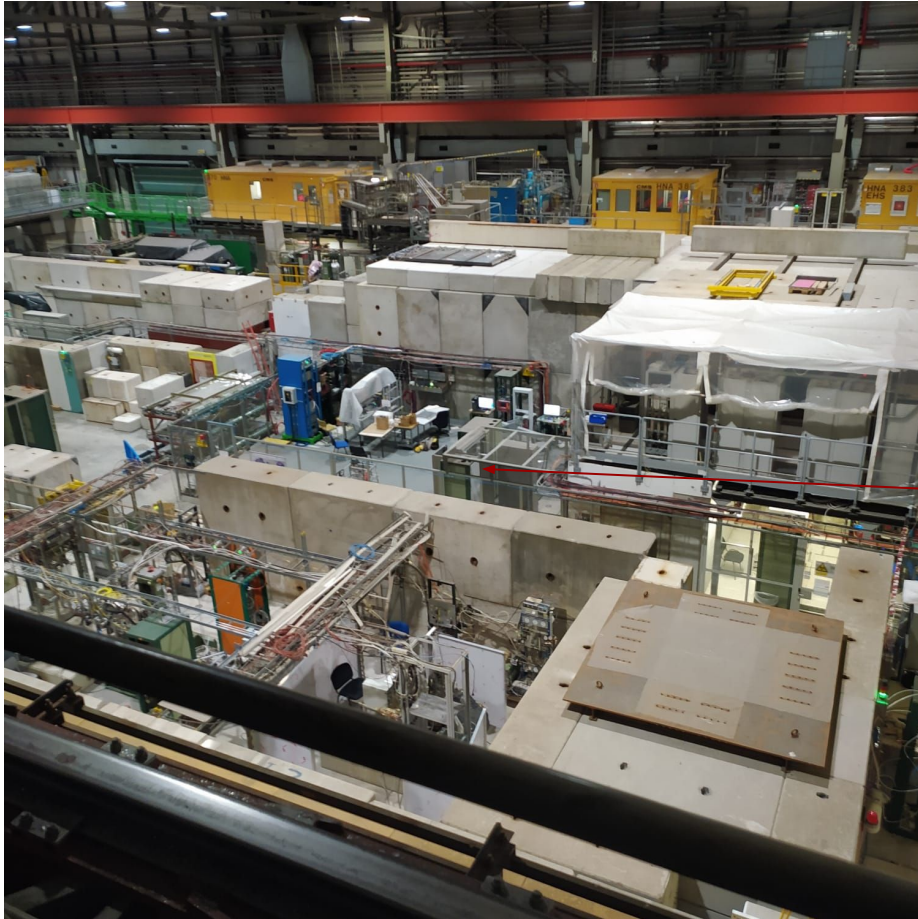
# What is GIF++?



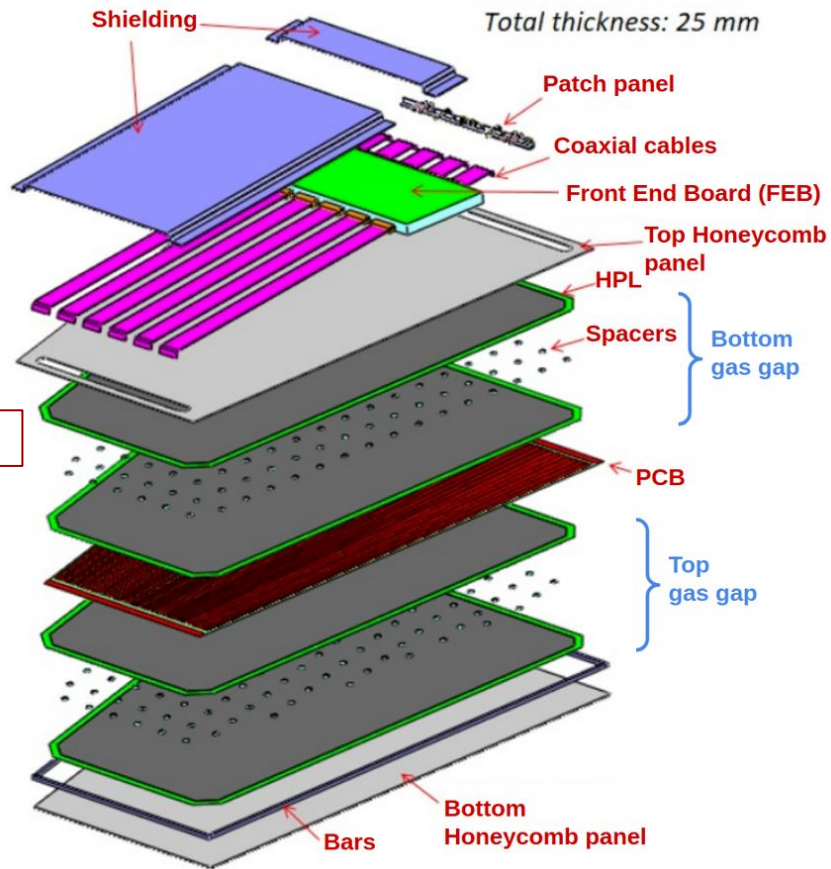
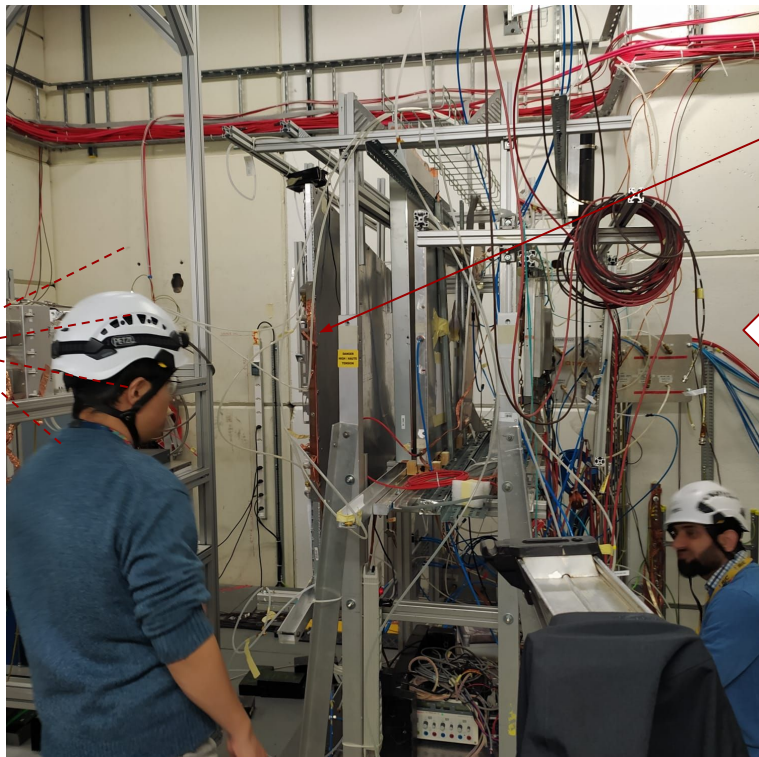
<http://gif-irrad.web.cern.ch/>



# What is GIF++?



# What did I do at GIF++?



# What did I do at GIF++?

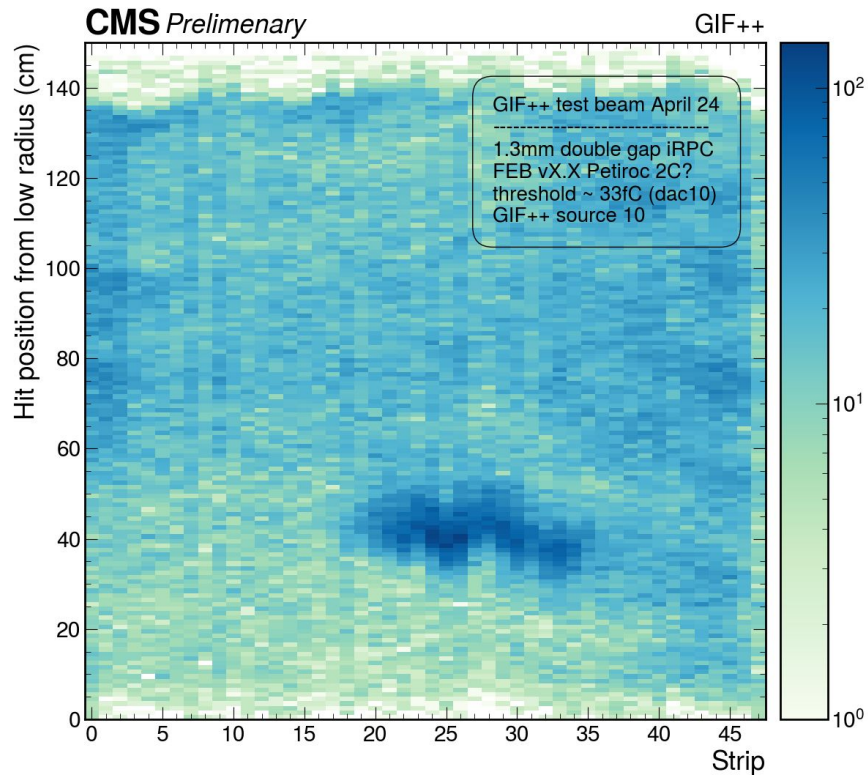
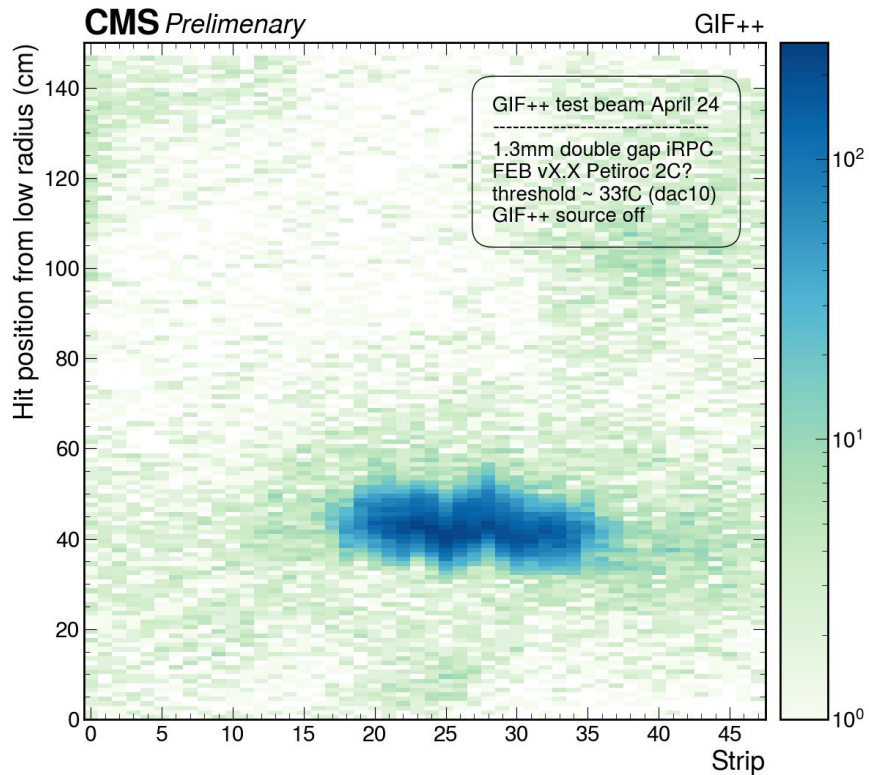


# What did I do at GIF++?

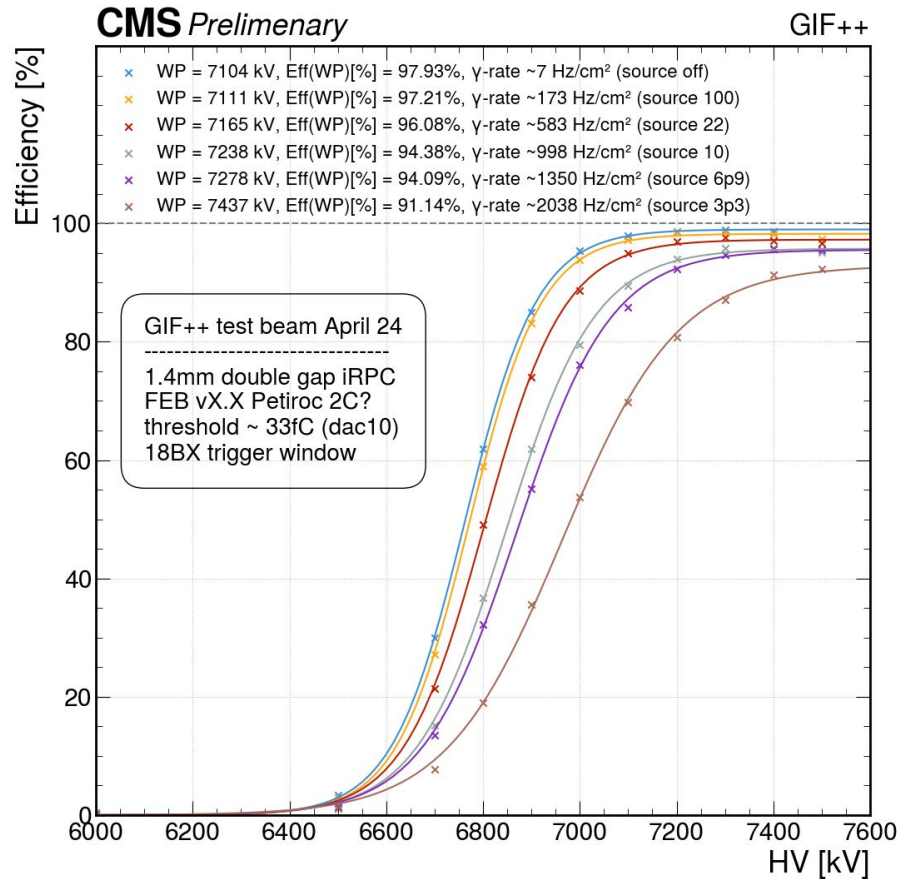


No radiation

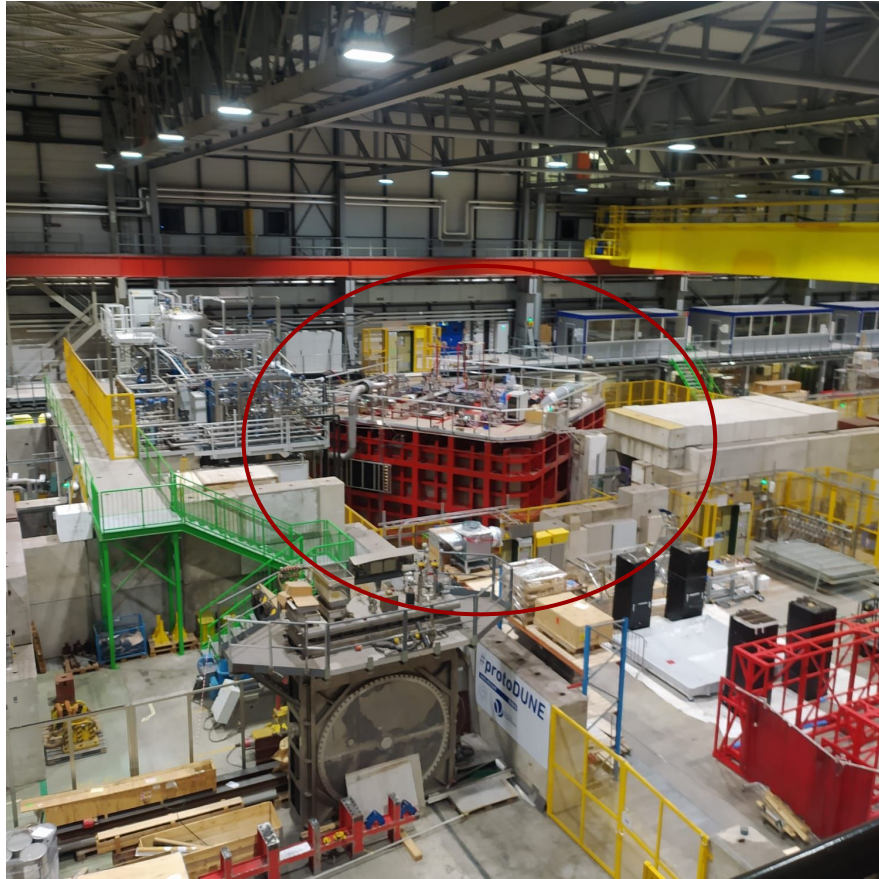
~ HL-LHC conditions



# What did I do at GIF++?



# Pop Quiz!



# Backup slides

[jules.vandenbroeck@cern.ch](mailto:jules.vandenbroeck@cern.ch)





