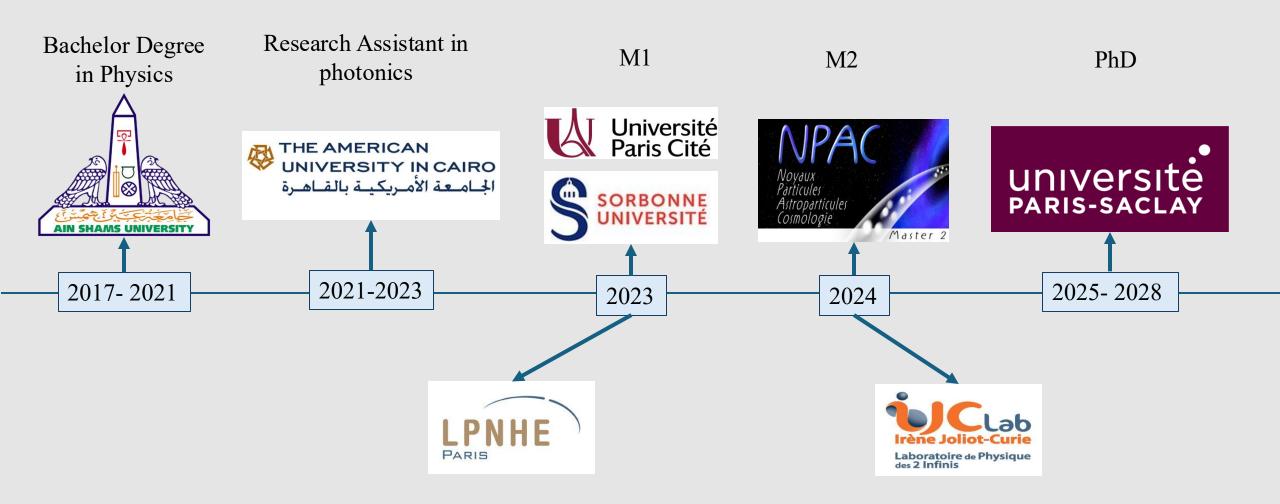


Self-introduction and Future PhD Research

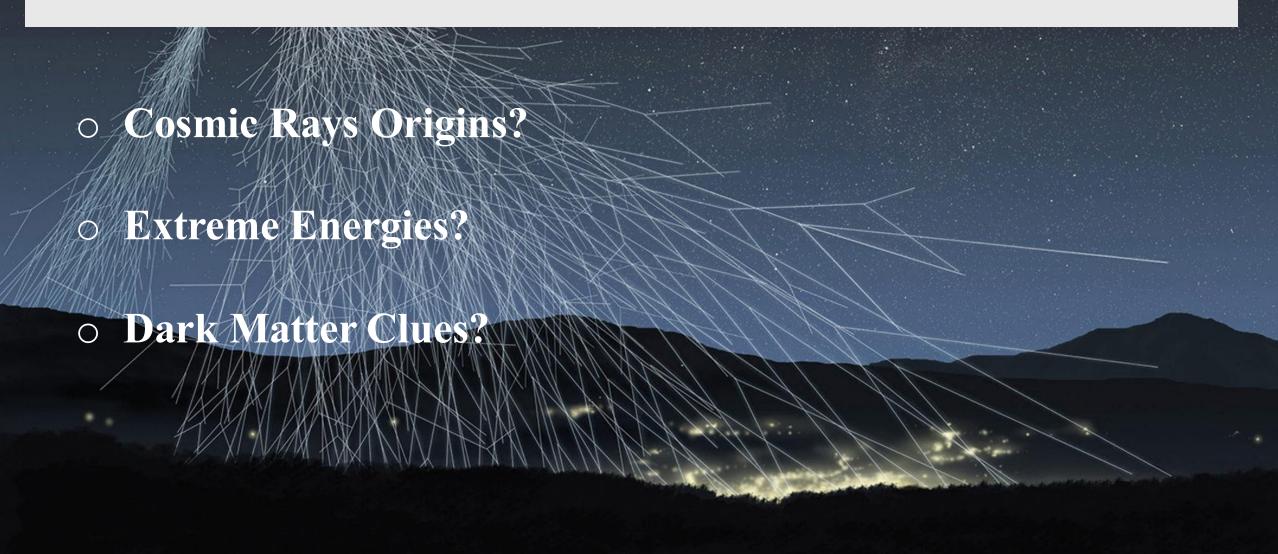
Presented by: Mulan Ahmed

Date: July 2025

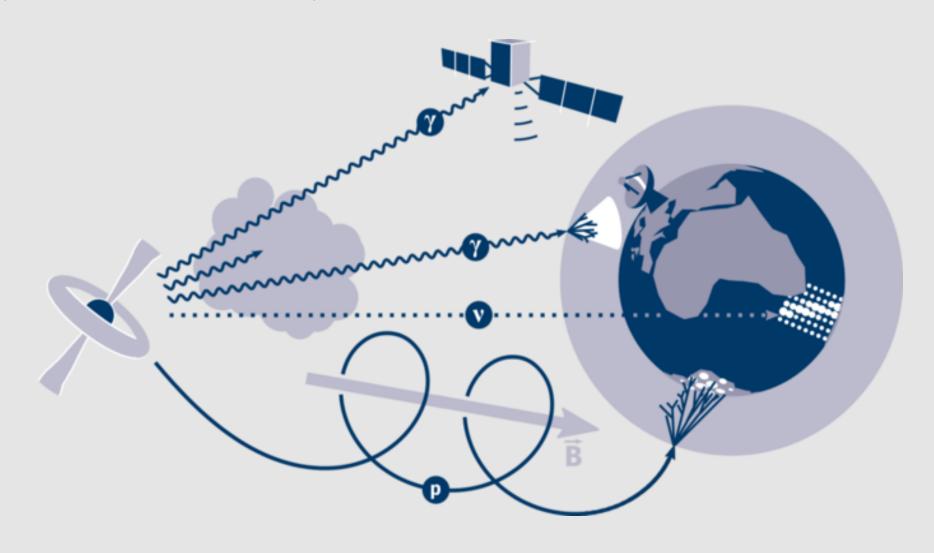
#### Education



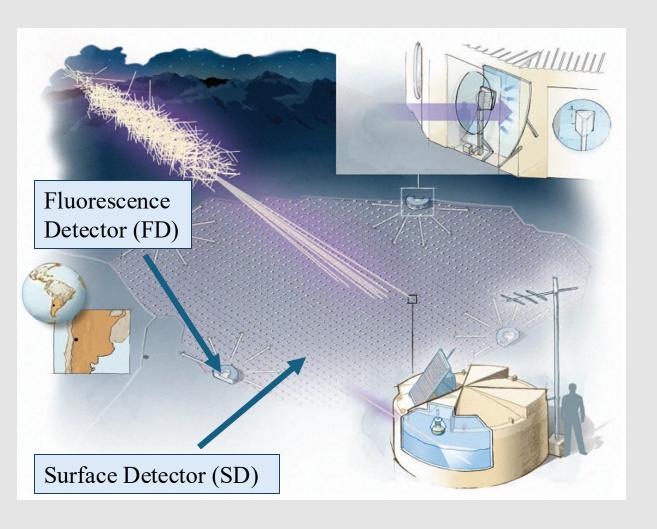
# Ultra-High Energy Gamma Rays and Neutrinos

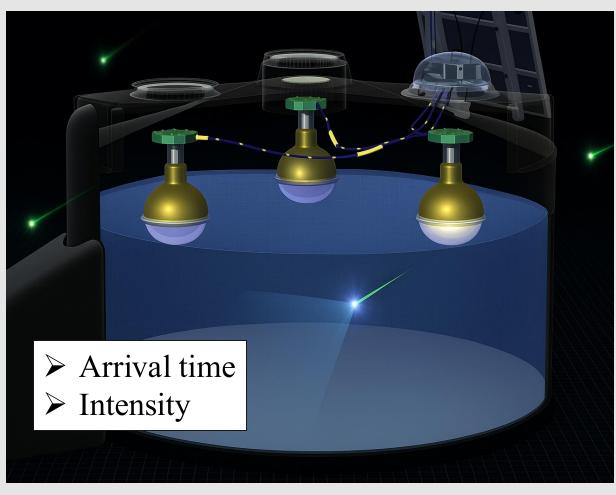


## Why Gamma Rays and Neutrinos

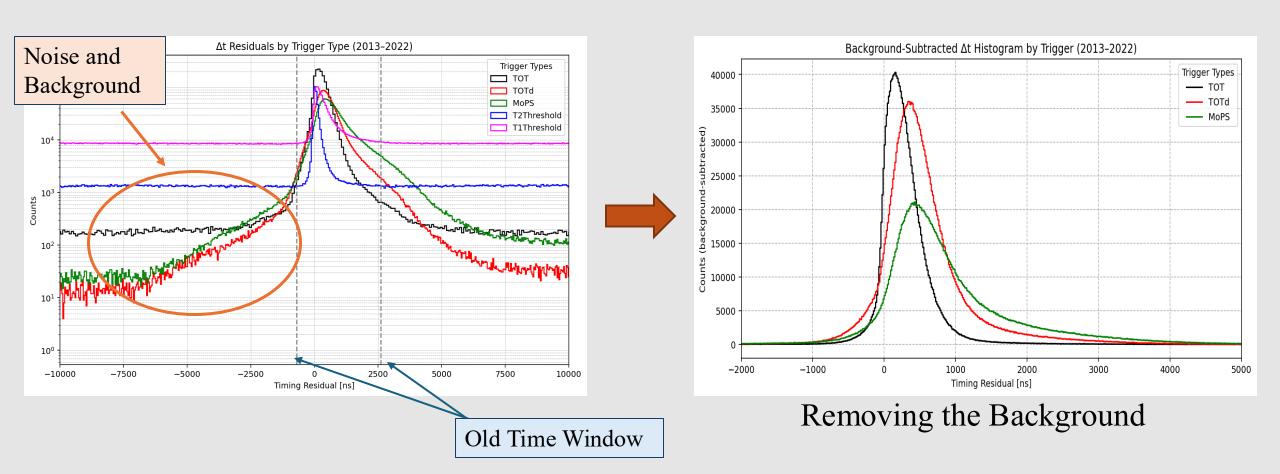


#### Pierre Auger Observatory

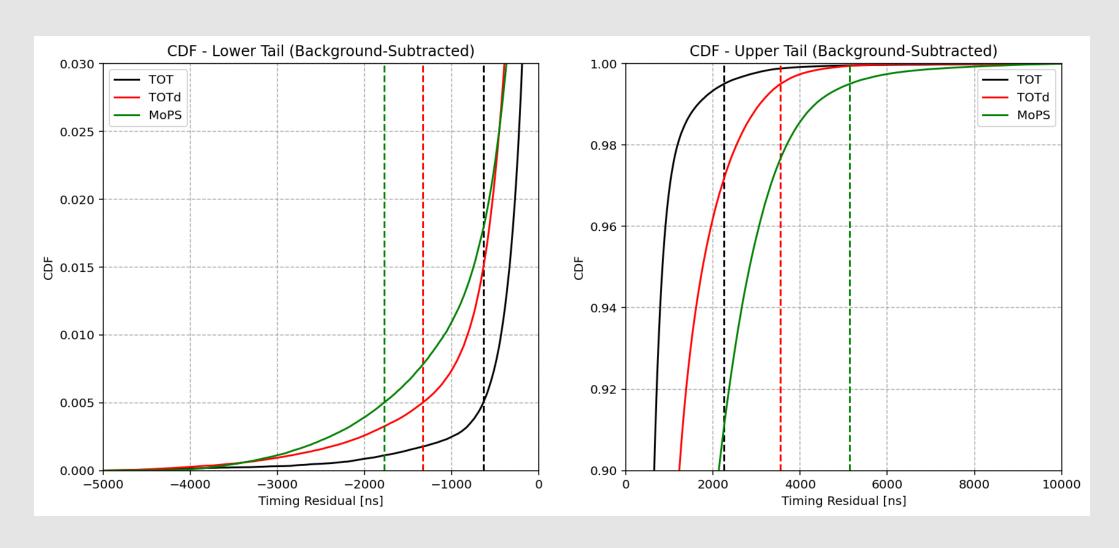




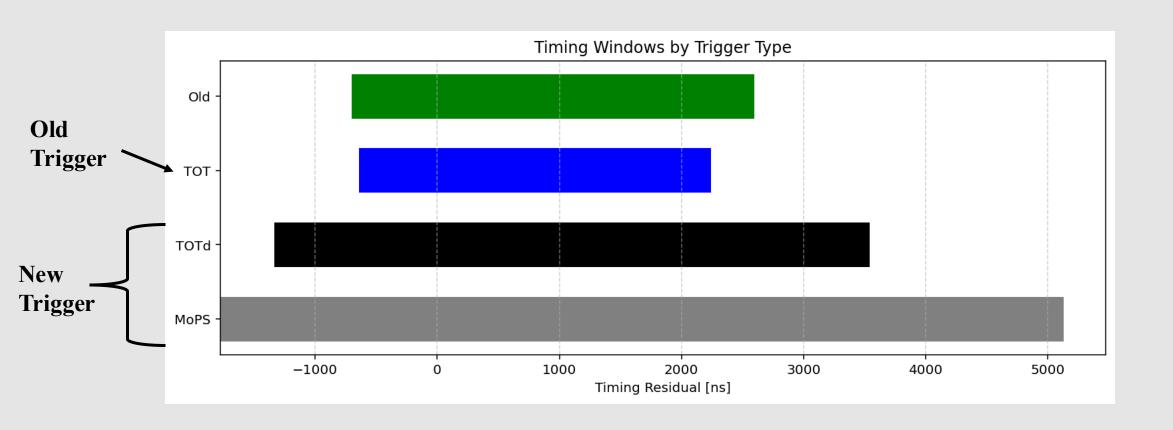
## Time Window Using New Triggers



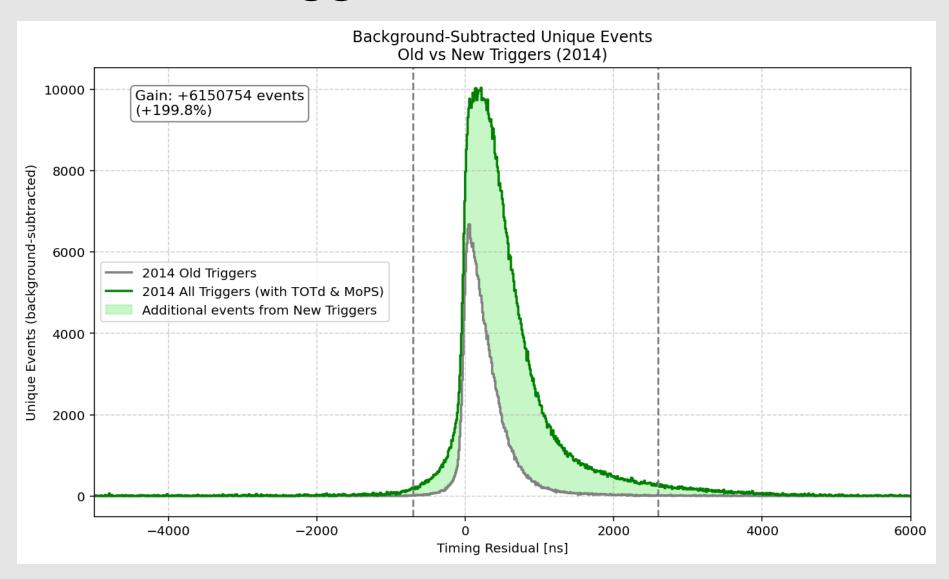
## Results and Analysis



#### The New Time Window Using CDF



## Old vs New Triggers



#### Conclusion

- What Has Been Done
  - The New Time Window
- What is Next
  - Calculating the Energy
  - Looking in Particles Traces
  - Identifying the Particle

