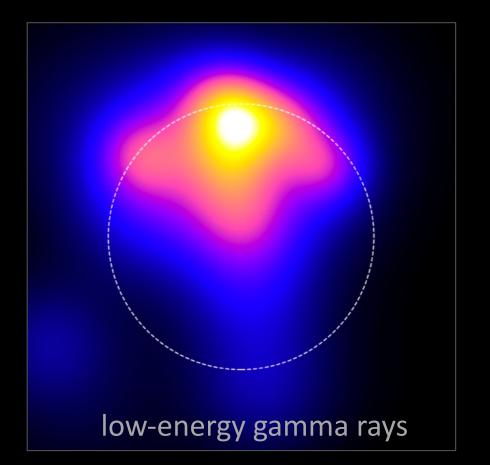
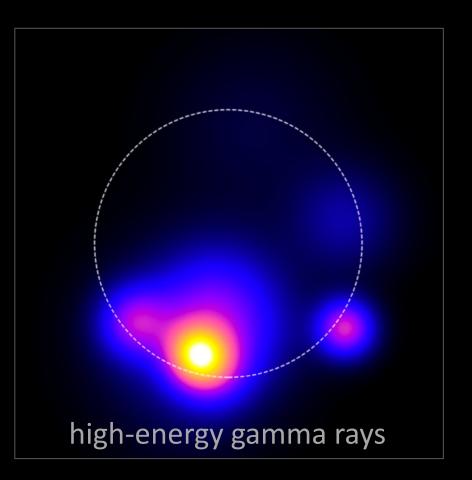
# Asymmetric Gamma-Ray Emission from the Quiet Sun

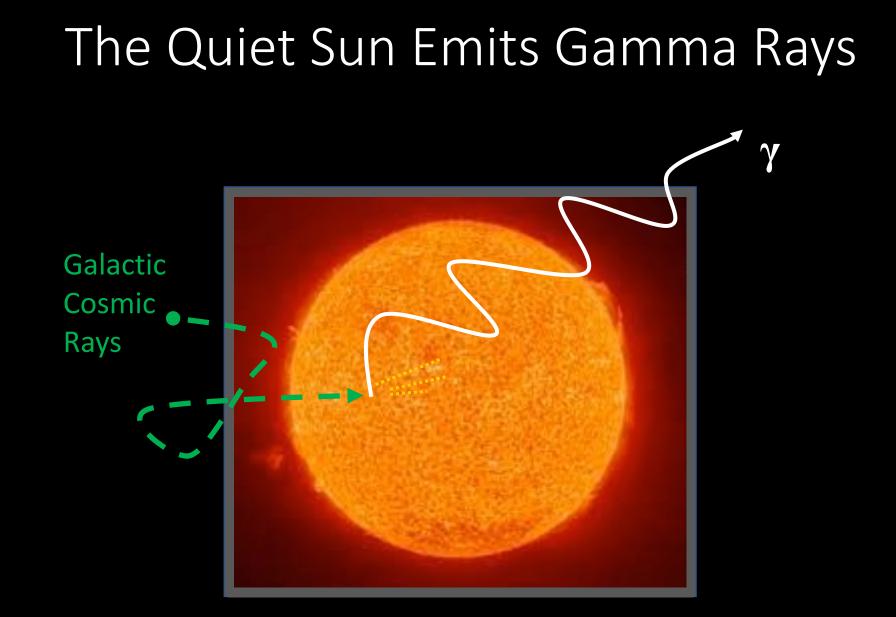
Bruno Arsioli & Elena Orlando (Accepted to be published in ApJ)



#### Our Results

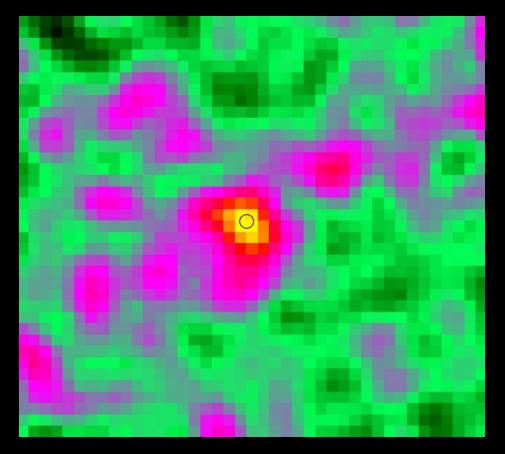






## First Discovery of the Quiet Gamma-Ray Sun

EGRET Telescope (1991 - 2000)

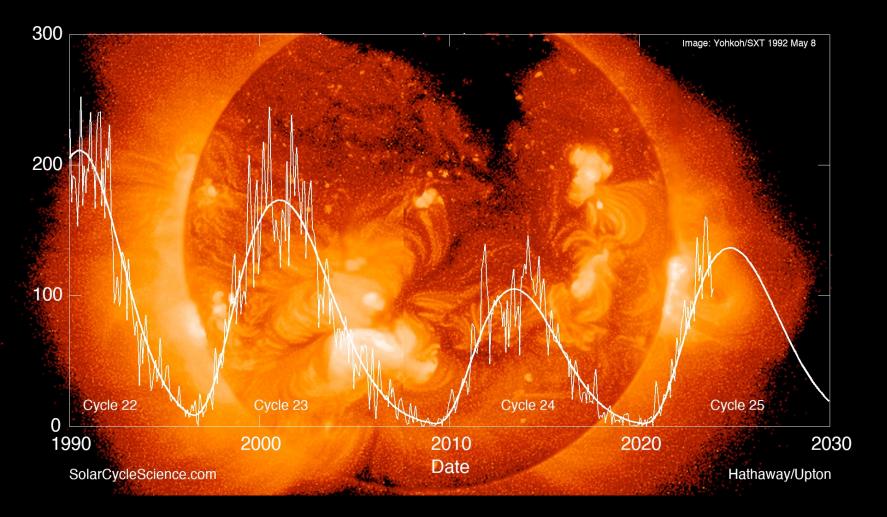


Orlando & Strong 2008

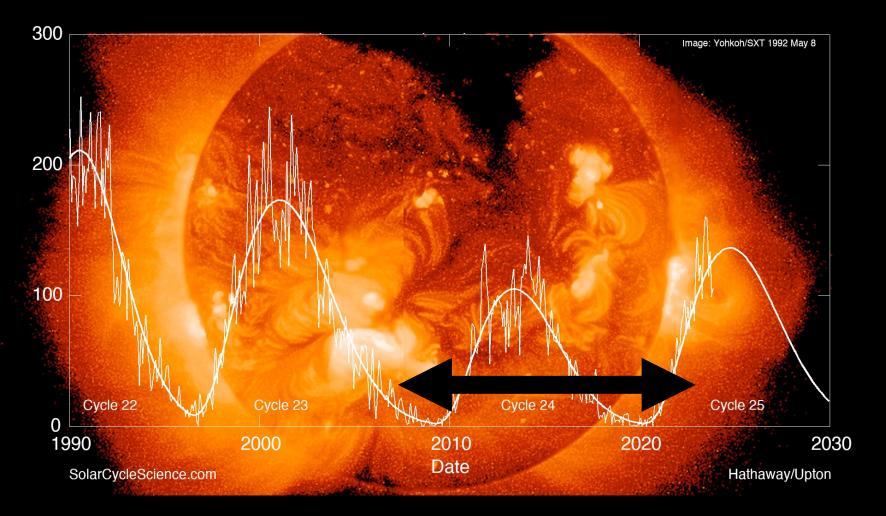
### FERMI Large Area Telescope and the Sun



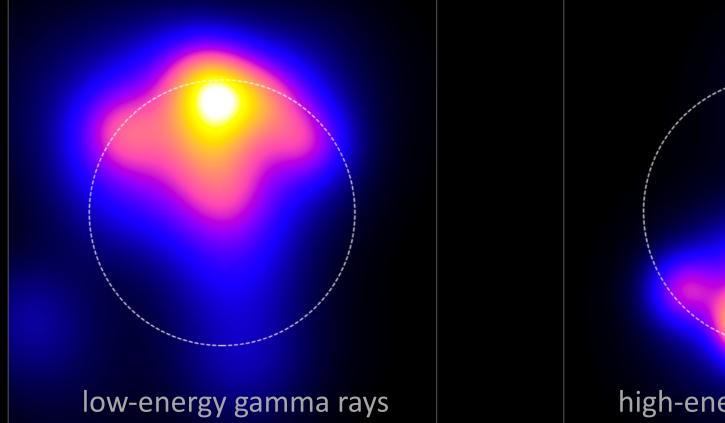
## Solar Activity

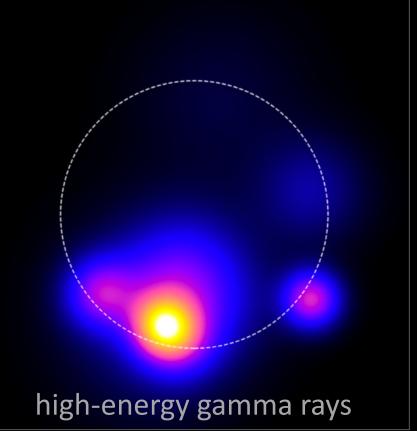


# Our Analysis

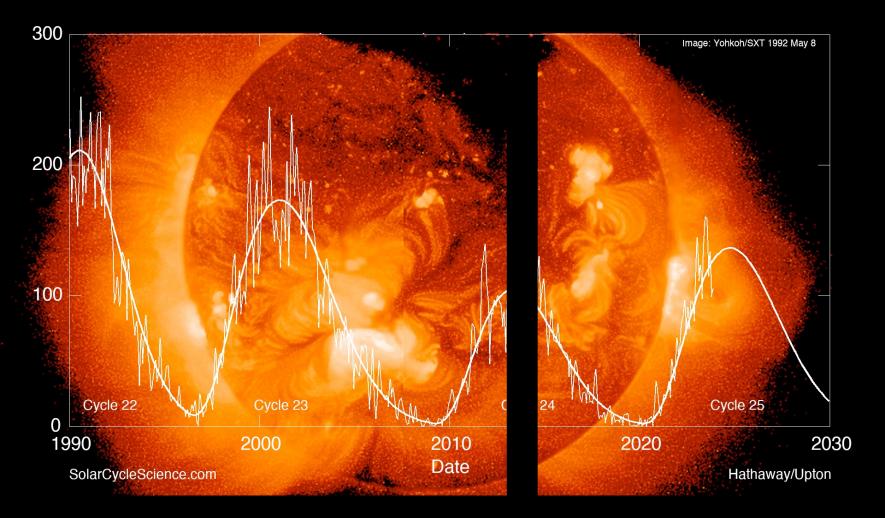


# Our Results: Asymmetry

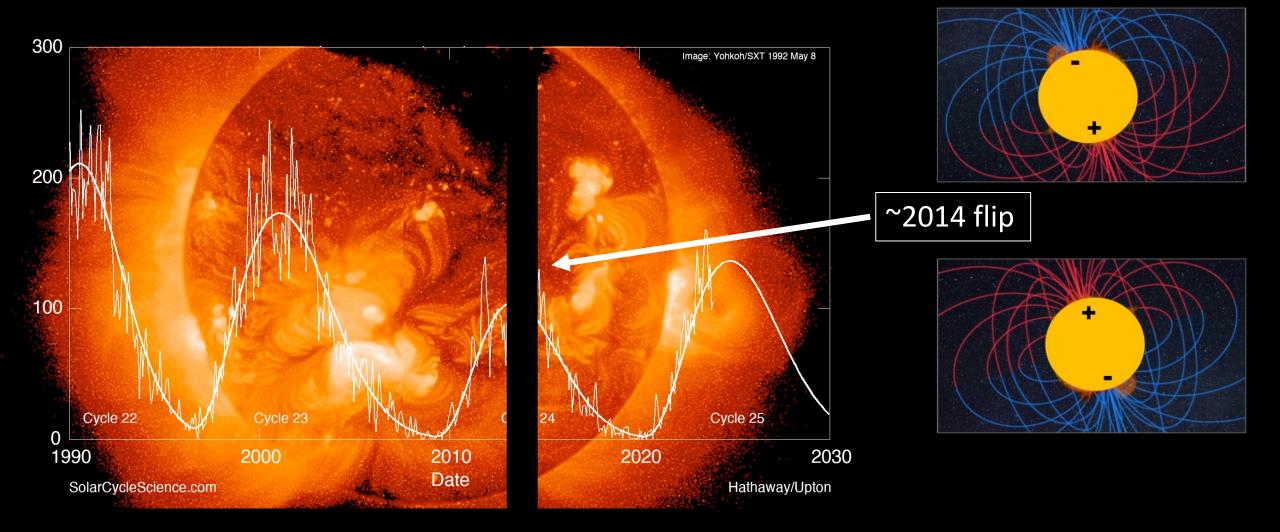




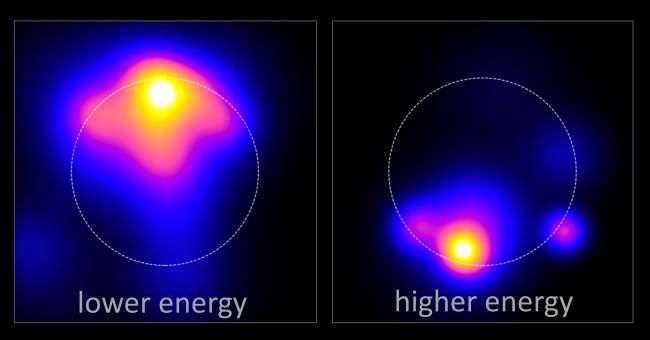
## Solar Activity and Magnetic Field



## Solar Activity and Magnetic Field



### Our Results: Asymetry During the Flip



suggests a crucial role of the magnetic field and opens up a link among astronomy, particle physics, and plasma physics Elena Orlando, orland.ele@gmail.com