

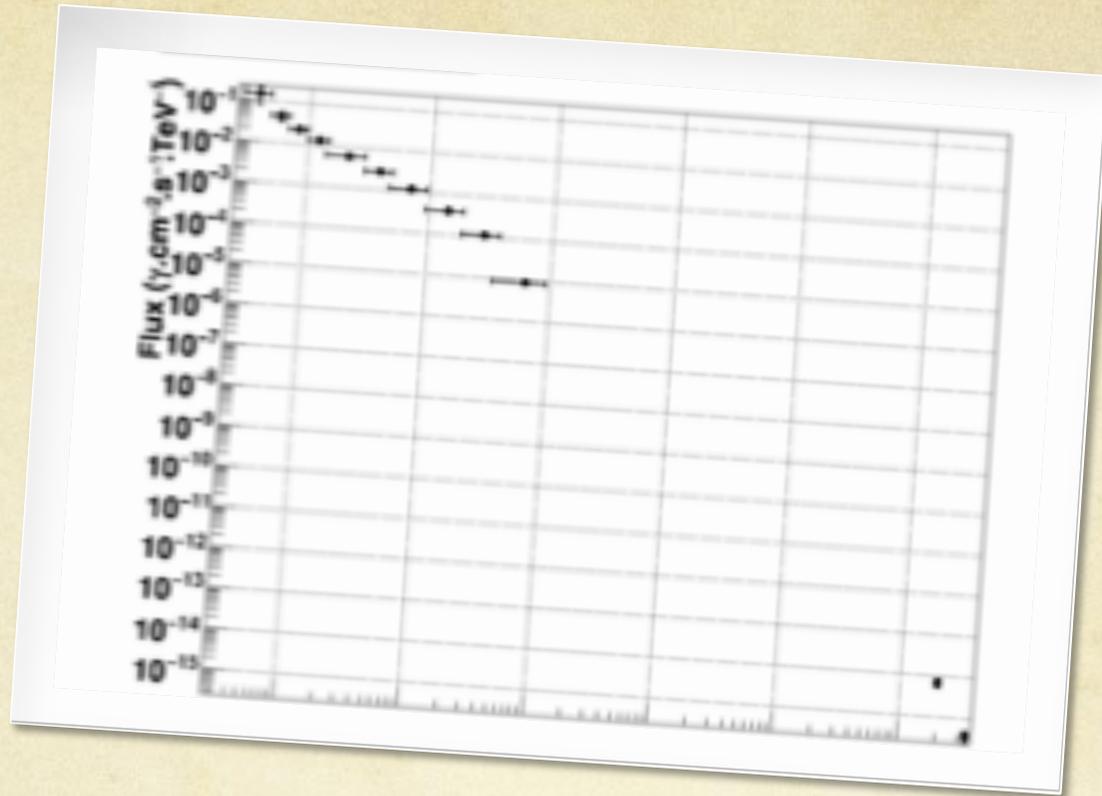


Search for TeV Emission
from Geminga by
VERITAS

Payel Kar
University of Utah
Fermi Summer School 2013

Geminga

- Its is close about 200pc
- First detected $>20\text{MeV}$ by SAS-2 and then in X-rays by CosB
- Period detected by EGRET to be about 237 ms
- EGRET also measured the period derivative from which the age was calculated to be 300,000 years



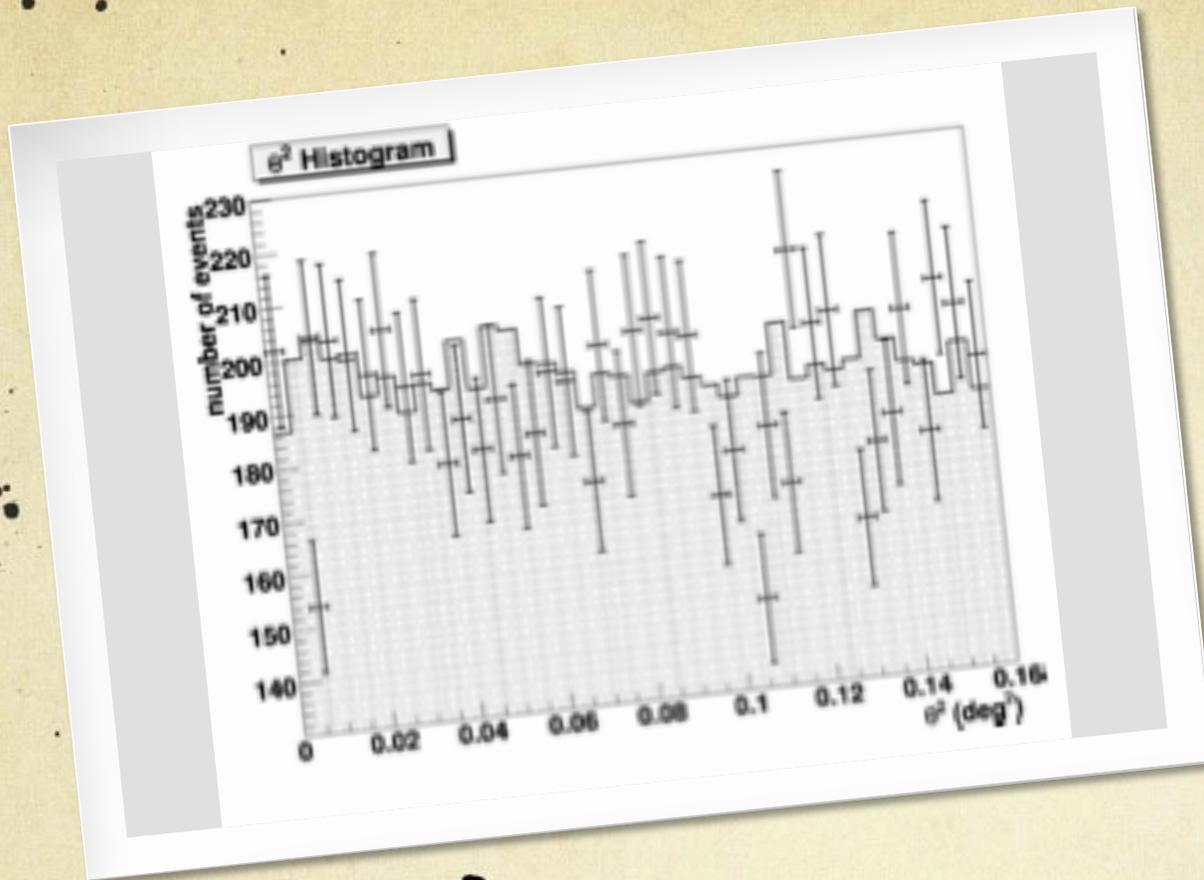
Energy Spectrum of Geminga

Pulsed radio emission from Pushchino Radio Observatory at 102.5MHz

X-Rays in XMM-Newton

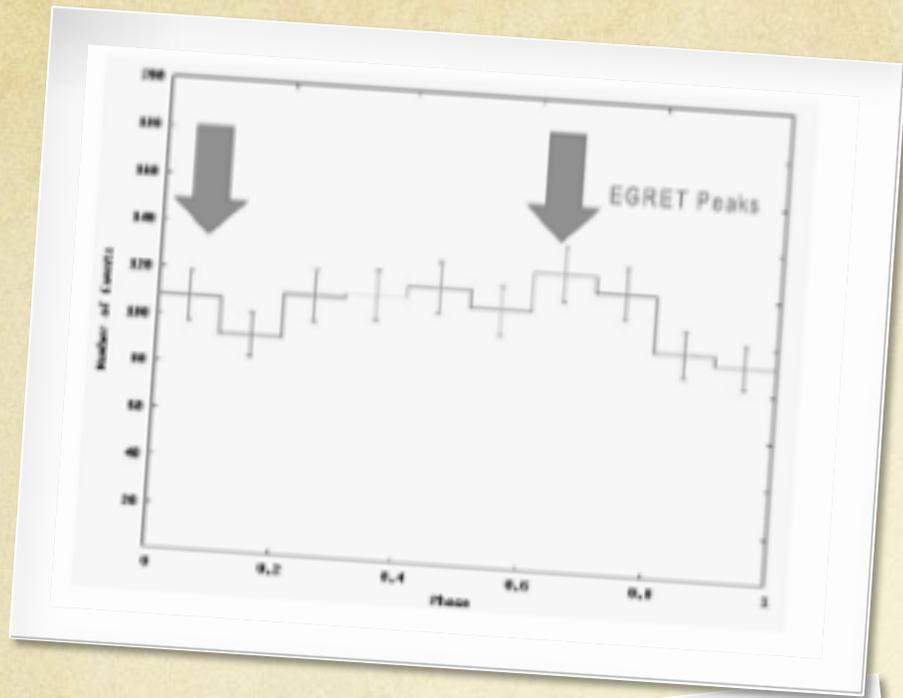
High Energy Gamma in LAT

VHE in MILAGRO



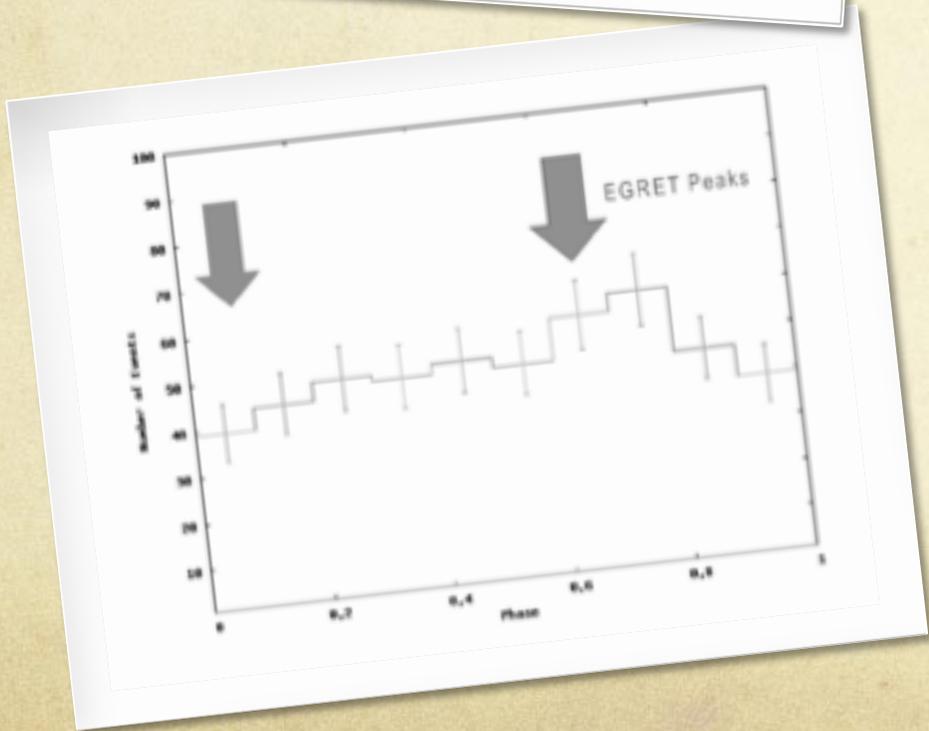
Histogram of squared angular distribution
of ON phase and OFF background

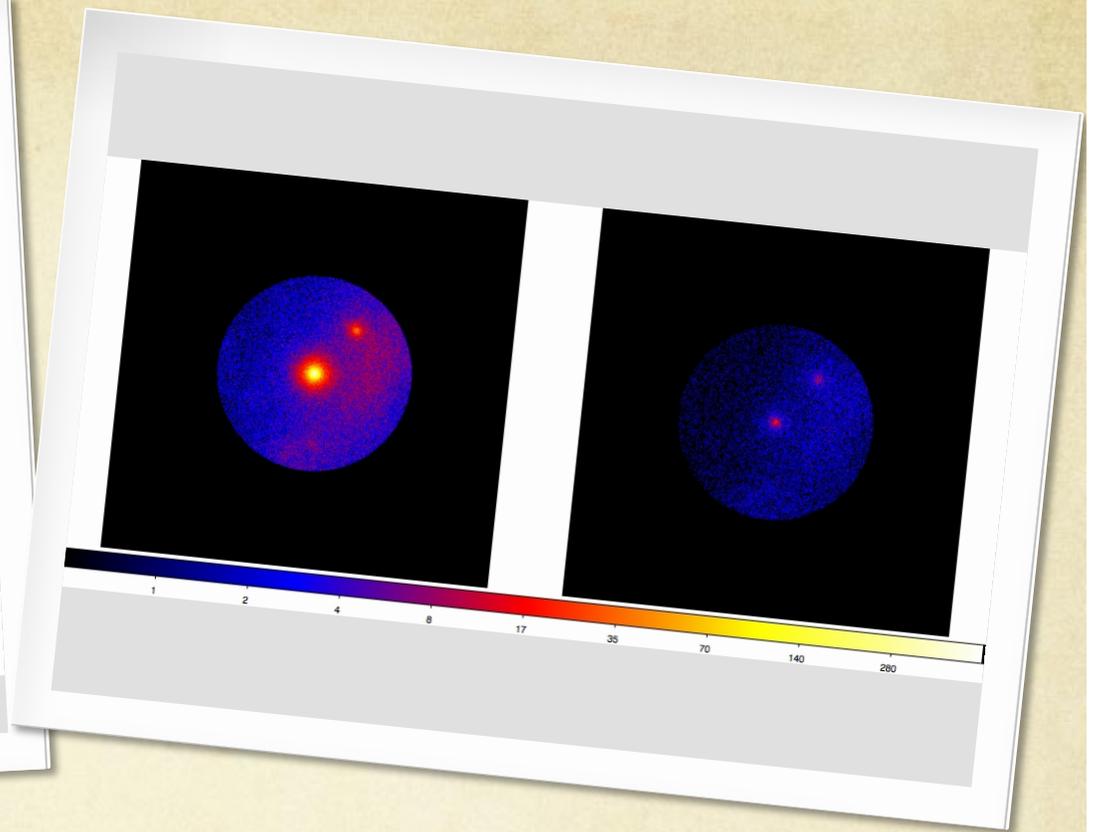
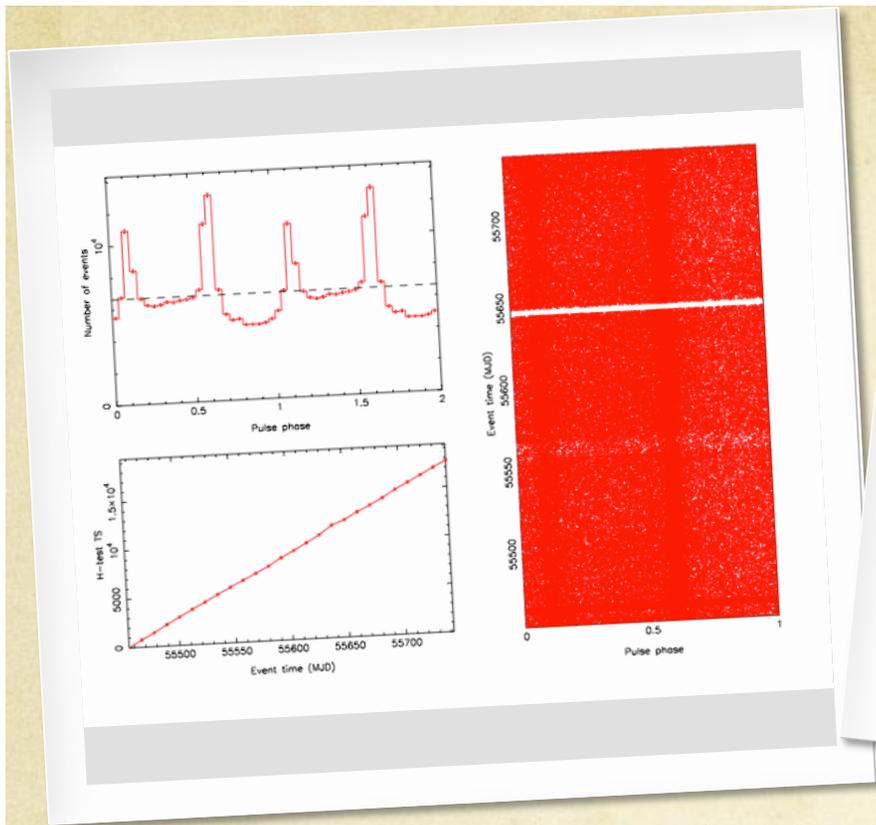
ON-OFF data is consistent, no significant excess



Periodicity analysis ,
similar to steady point
source analysis done on
same data.

Histogram of the phase
distribution for all ON events in
the data.





Thank You for your attention