Future Mission Poster Advertisement

Compton-Pair Production Space Telescope

Extending Fermi-LAT Discoveries into MeV Gamma-ray Astronomy

ComPair

R. Caputo, UCSC
on behalf of the ComPair Team

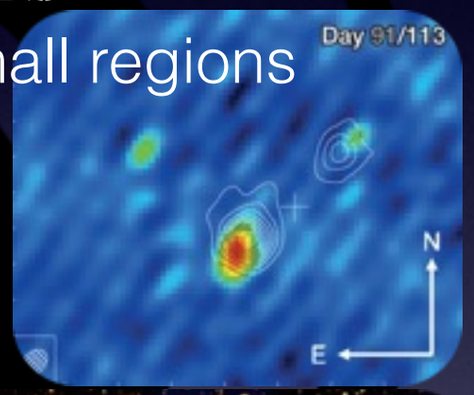
Fermi Symposium, November 10, 2015

Science Of The **EXTREME** Universe

Main Science Objectives

ASTROPHYSICAL JETS

Enormous power from small regions

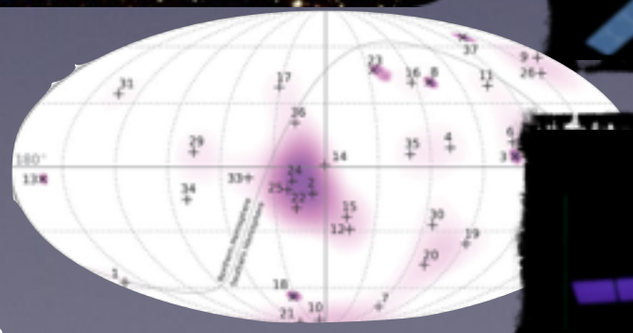


COMPACT OBJECTS

Laboratories for extreme gravity and magnetism

UNIDENTIFIED GEV SOURCES

Guaranteed discovery space in determining the origin of these sources



Time is Right!

* Extend Fermi Discoveries
* Strong Available Fermi-LAT team
* Available flight-proven technology

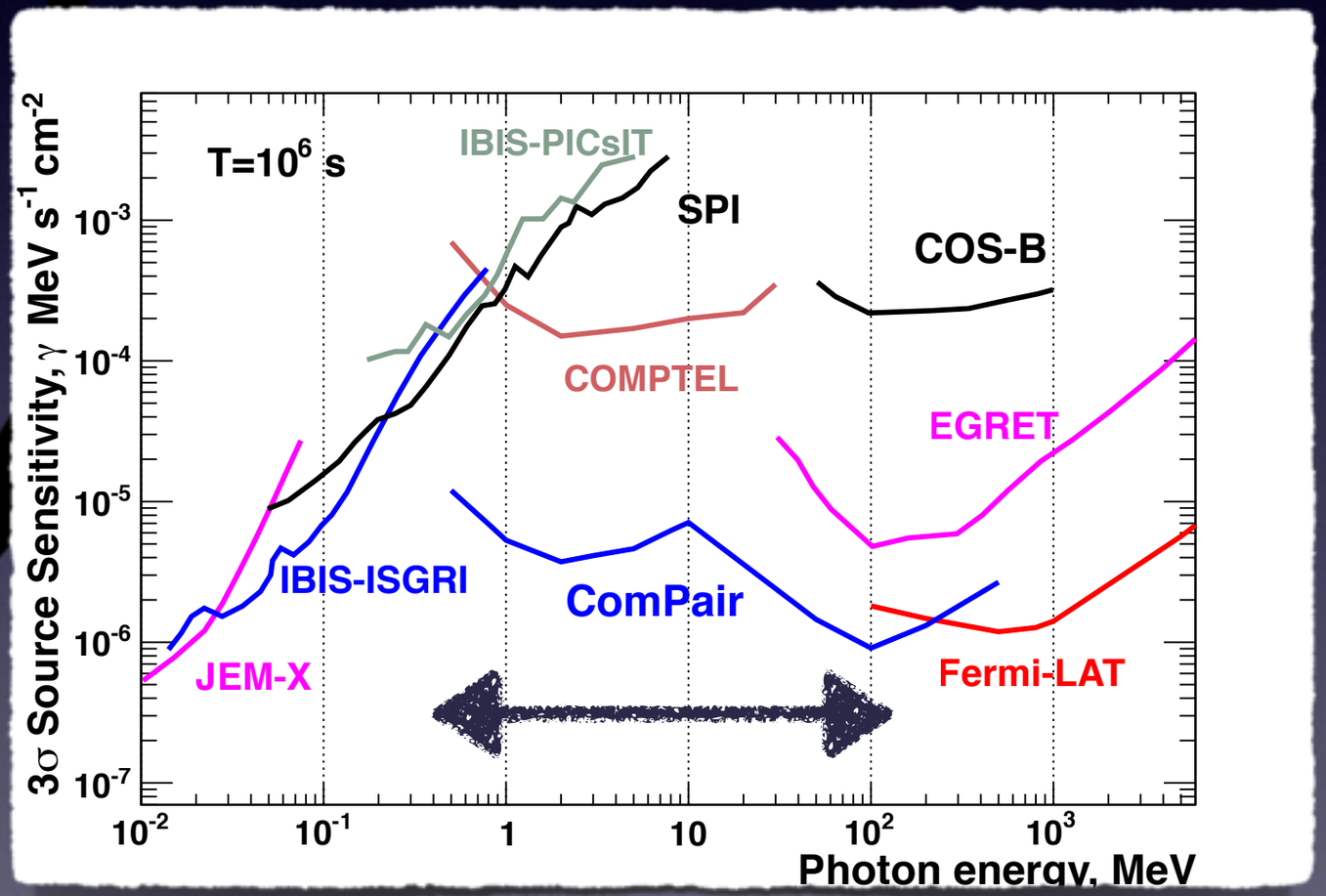
Important outstanding problems **require** the high **keV-MeV range**

Synergies with upcoming wide-field multi-wavelength and multi-messenger surveys

MIDEX-scale Wide Aperture Discovery Mission:

Compton-Pair Production Space Telescope

- Observation strategy: Survey
- Energy Range: 200 keV to >500 MeV
- Sensitivity 20-50x better than COMPTEL
- Angular resolution 3-5x better than Fermi-LAT (20-100 MeV)



COMPAIR

Please visit our poster for instrument concept @ FI III