

LARGE AREA TELESCOPE FIRST LIGHT

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> on behalf of the GLAST LAT Collaboration and the GLAST mission

> > August 26, 2008

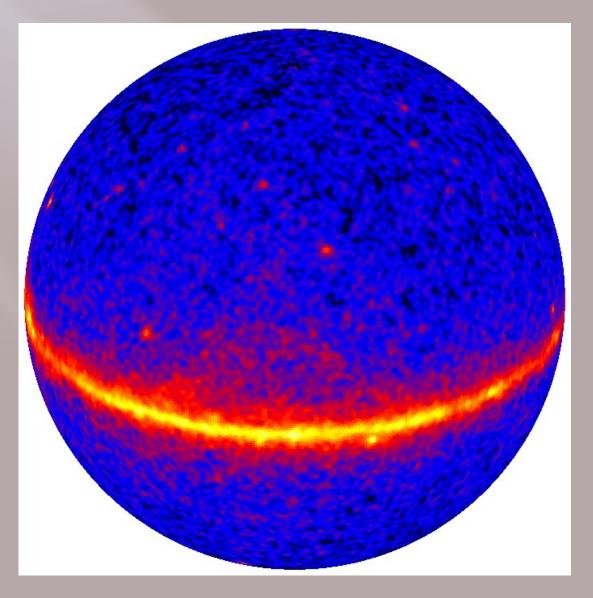


LAT "First Light" All-Sky Map

LAT does complete sky scan every 3 hours

Shown here: initial all-sky exposure done in 4 days, achieved EGRET 1 year source sensitivity

Orthographic projection: sky projected onto surface of a sphere



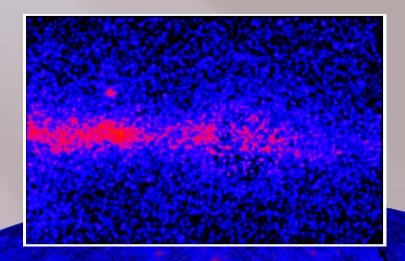


LAT "First Light" All-Sky Map

entire sky projected onto a flat map



LAT "First Light" All-Sky Map



Milky Way Center

Geminga Pulsar Vela Pulsar

Crab/

Pulsar

Blazar 3C454.3



Summary: First Light Image

- The Large Area Telescope (LAT), designed and built by an International Collaboration from the United States, France, Italy, Japan, and Sweden, is fully operational.
- In just a few days, the LAT has already corroborated many of the great discoveries of EGRET and AGILE; finding new sources as well;
- Undoubtedly, the most exciting is yet to come as we start the all-sky survey phase and with time probe deeper and deeper into the high-energy Universe

An important window of discovery on our Galaxy and the Universe beyond is now wide open.



GLAST LAT Collaboration

- France IN2P3, CEA/Saclay
- Italy INFN, ASI, INAF

• Japan

Hiroshima University ISAS/JAXA RIKEN

Tokyo Institute of Technology

• Spain

ICREA and Institut de Ciencies de l'Espai

Sweden

Royal Institute of Technology (KTH) Stockholm University

United States

Stanford University (SLAC and HEPL/Physics) University of California at Santa Cruz - Santa Cruz Institute for Particle Physics Goddard Space Flight Center Naval Research Laboratory Sonoma State University Ohio State University University of Washington

Principal Investigator: Peter Michelson (Stanford University)

~270 Members (~90 Affiliated Scientists, 37 Postdocs, and 48 Graduate Students)

construction managed by Stanford Linear Accelerator Center (SLAC), Stanford University