This is a draft outline of the Fermi day schedule and contents.This page is still growing, but feel free to download and play with the suggested datasets.

Datasets:

You can obtain the following 3 datasets via a query on the FSSC dataserver.

1. 3C454.3 from 2009-10-25 00:00:00, 2010-01-25 00:00:00. 20 deg ROI, take default energy selection. You need photon and spacecraft data.

2. 3C454.3 from March 30, 2010 00:00:00 to April 12, 2010 00:00:00. 20 deg ROI, default energy selection. You will need photon and spacecraft data.

3. Vela from April 15, 2010 00:00:00 to June 15 2010 00:00:00. 20 deg ROI, default energy selection. You will need photon and spacecraft data.

LAT first year catalog in fits format (can be obtained from the FSSC here)

Galactic diffuse background model (gll_iem_v02.fit) and isotropic template (isotropic_iem_v02.txt) from the FSSC here .

Software:

Fermi Sciencetools v9r15p2

make1FGLxml.py (can be downloaded from user contributed software area at FSSC)

Agenda Outline

9:30 - 10:30 **Introduction to Fermi**

Instruments, observing modes, data processing/handling and some science highlights.

10:30 - 11:00 **Exploring Fermi-LAT data**

Overview of the Fermi science analysis software, data products, background models, documentation etc. Depending on how things are going timewise, we may start the first hands on session here.

11:30 - 12:45 **Hands on - Exploring Fermi data**

In this section we will cover data selections (using gtselect and gtmktime), making counts maps (gtbin), counts lightcurves (gtbin), exposure maps and exposure vs time (to compare with the counts lightcurve). We will use 2 weeks of Vela or 3C454.3 data for these studies.

14:15- 16:00 **Hands on - Spectral fitting**

16:30 - 17:30 **Additional topics in spectral fitting**

Tricks and tips, how to check that you have the right answer, what to try if things look incorrect (or you get an error/warning), intro to scripting. (the intent of this session is to point people in the right direction if they want to pursue a more sophisticated Fermi-LAT analysis)