

# Likelihood Analysis

## Likelihood analysis and related tools

This page and its children are intended for notes about likelihood analysis and the related science tools.

- [Notes on recent features Likelihood](#)
- Here is a link to the current workbook version of the [tutorial](#)
- There is now also a guide to the interactive use of [Likelihood from the Python prompt](#)
- Here is a tutorial for [binned likelihood analysis](#)
- [Example XML model definitions](#).

## Previous tests of the method

Tests performed in the framework of the catalog group. I have not tried to go before May 2007. Even that may not be fully representative of what the code does now.

- [Energy dispersion](#) (May 2007): estimates effect of neglecting energy dispersion in gtlake
  - Biases in the spectral parameters can be mitigated by appropriate energy selection. See [this presentation](#) from the [Aug 2007 Collaboration Meeting](#).
- [Obssim2 simulation](#) (September 2007): the latest plots are at the end
- [Test patterns](#) (December 2007): the first plot shows the flux restitution in that simulation of faint sources over a flat background.
- [Bright sources](#) in obssim2 (February 2008): the end of the report shows how the spectral modeling of bright sources influences fainter sources nearby.
- [LEO simulation](#) (March 2008): the end of the report shows biases due to the imperfect background modeling.

## Documentation and Development Notes

- [Energy Dispersion Notes](#) (presented to C&A 14 April 2008)