LEXI - Data Flow Diagram

A new file is generated from the spacecraft

time, V_1, V_2, V_3 and V_4, HK values ← Data processing ← Raw Binary Data

t, x_d, y_d (detector)

zero-point shift / Linear Correction →

t, x_{lc}, y_{lc} (detector)

Non-linear Correction →

t, x_{nlc}, y_{nlc} (detector)

Spacecraft pointing vector

t, γ, α

time, roll angle and look direction

Coordinate transformation →

This is one of the final dataproduct ➡ $t, RA, \delta(J2000)$

Remove →

Integrate

Get x-ray background ← Exposure Maps

Background corrected Image

Long Term Data Archiving

Write and Save science CDF files

Write and Save Engineering CDF files

Publish CDF files to CDAWeb

Distribute locally

Legend

- Not under our control
- Already done/code available
- Needs to be done/hackathon
- Needs to be done/later