# Beam Position Stability (Status Report)

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## Intro

- **Task:** Analyze Primex Gamma Profiler (PGP) EPICS data to study beam position stability during the Fall 2004 datarun.
- **Bkgd:** The EPICS data for the PGP consists of two 64 dimensional arrays (one in x and one in y).

## Analysis Plan

- My job is to extract the PGP arrays from the EPICS skim files, histogram them, do a Gaussian fit to the distributions, and log the means and sigmas along with thier event numbers to a datafile.
- These means and widths are then to be put into the book_keeping DB.
- Likewise, we will produce an average mean and sigma (for x and y) to characterize the beam position and stability during an entire run and put these into the PrimEx calibration DB.