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# Threshold Scan Validation Tools

## Purpose and Scope

ThresholdScanValidation is a collection of ROOT tools designed to aid validation of the pixel DSP code's threshold scan. They are not part of the pixel analysis code framework, but designed to be run from within ROOT, either compiled or not.

## Components

### S-Curve Simple Production

This takes the occupancy histograms from a new or old DSP code threshold scan and has ROOT do a fit of the Erf() function to them. The means, sigmas, and chi2s are saved in 2D histograms by module. The S curves themselves are also saved, with their corresponding offline ROOT fits.

### Simple Subtract

Takes any two fit results (online or offline) from any scans and subtracts the results pixel by pixel. Histograms of these difference distributions are created, and useful things can be cut-ed. Also divides things by pixel type.

-- AndreBach - 06 Aug 2008

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