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Title: Abrupt change of the energy scale for XIS0

Category: XIS

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Abrupt Change of the Energy Scale for XIS0

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Abstract

- The line centroid of the ^{55}Fe calibration source abruptly increased by ~ 60 eV on $\sim 2014-05-28$. This problem is seen only for XIS0, and is not found for XIS1 or XIS3 (see the figure on the next page).
- This is possibly caused by the change of the CTI of XIS0, since 2014-05-28 matches when the charge leakage in the segment A of XIS0 increased (see the previous note from the XIS team http://www.astro.isas.jaxa.jp/suzaku/analysis/xis/xis0_area_discriminaion2/).
- The latest version of the CALDB file (makepi20140403) does not take account of this effect. The XIS team will update the CALDB file to solve the problem.

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