

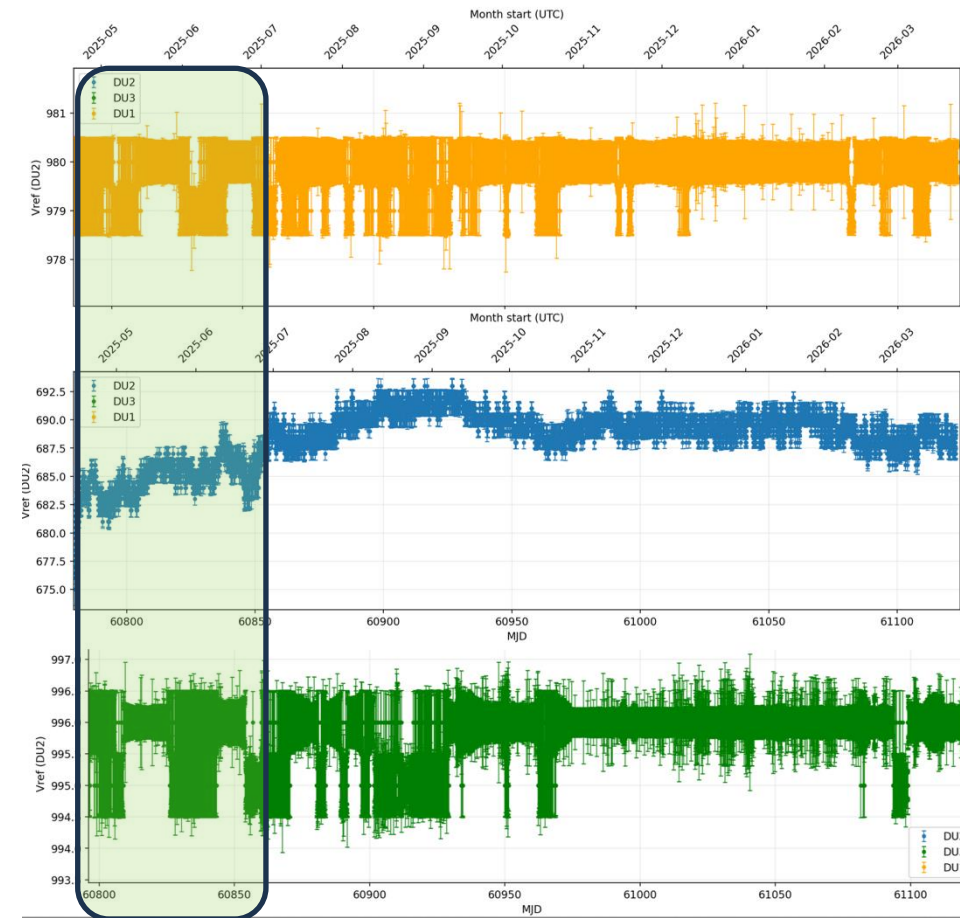


IXPE mission and data processing status updates



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- ❑ **IXPE CALDB updated on 2026-04-27**
 - DU2-specific:
 - Processing related: ASIC parameters, Pedestal values, spurious modulation file, PHA scaling.
 - Background rejection parameters updates using new sets of parameters generated by Alessandro Di Marco.
 - Events are already flagged with background flares, no need to rerun the rejection scripts.
 - All DU:
 - Detector quantum efficiency updates
 - Modulation factor updates
- ❑ **DU2 data for all targets from 2025-04-14 to 2025-06-17 (excluding Kes 75), have been reprocessed and released. New background rejection parameters derived specifically for this epoch were used to flag events for users who wish to adopt the Di Marco+2023 background rejection algorithm.**
- ❑ **Processing and data release are up to date.**



DU2 Vref values had excessive variations post anomaly until June 2025

- ❑ We are exploring options to increase observation efficiency with updated SAA definitions.
- ❑ Currently, the IXPE SAA avoidance is based on the Fermi LAT measurements from 2021.
- ❑ Fermi (GBM) has had multiple revised SAA definitions since then.
- ❑ Adopting the most recent SAA zone would increase an average of 3.5% in observation efficiency, approximately ~500 ks.
- ❑ We plan to test the new SAA zone before the full implementation.

