

Dither

dither_flag (target)

A flag indicating whether a dither is required for the observation. The default "NULL" means dither is preset to the standard dither pattern. *It does not mean no dither.* "Y" means that you are using your own dither parameters, these may be rejected on final review, so contact CDO ahead of time for review. "N" means no dither again this may be rejected by the SI team during final review so contact CDO to avoid surprises

The dither parameters must not violate the requirement on peak dither rate:

$$\sqrt{(y_amp * 2 * \pi / y_period)^2 + (z_amp * 2 * \pi / z_period)^2} < 0.22 \text{ arcsec/sec}$$

This peak dither rate can be used to evaluate the effect of image blurring during an ACIS frame integration.

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Parameter	ACIS Default	HRC Default
y_amp	8" = 0.002222 deg	20" = 0.0056 deg
y_frequency	1296"/sec = 0.36 deg/sec	1191"/sec = 0.331 deg/sec
y_phase	0	
z_amp	8" = 0.002222 deg	20" = 0.0056 deg
z_frequency	1832"/sec = 0.509 deg/sec	1648"/sec = 0.468 deg/sec
z_phase	0	

Value Range: Y, N, NULL