ASCL Code Record

[ascl:1608.001] Stingray: Spectral-timing software

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Stingray is a spectral-timing software package for astrophysical X-ray (and more) data. The package merges existing efforts for a (spectral-)timing package in Python and is composed of a library of time series methods (including power spectra, cross spectra, covariance spectra, and lags); scripts to load FITS data files from different missions; a simulator of light curves and event lists that includes different kinds of variability and more complicated phenomena based on the impulse response of given physical events (e.g. reverberation); and a GUI to ease the learning curve for new users.

Code site: https://github.com/StingraySoftware/stingray/
Used in: https://ui.adsabs.harvard.edu/abs/2018ApJ...853L..21B
Described in: https://ui.adsabs.harvard.edu/abs/2019ApJ...881...39H

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