Machine Learning for Noise Correction and Classification Strategies for Astronomical Sources

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TESS: An all-sky satellite survey taking single-band light curves with a 30 minute cadence.

link to my short presentation

detrending and cleaning
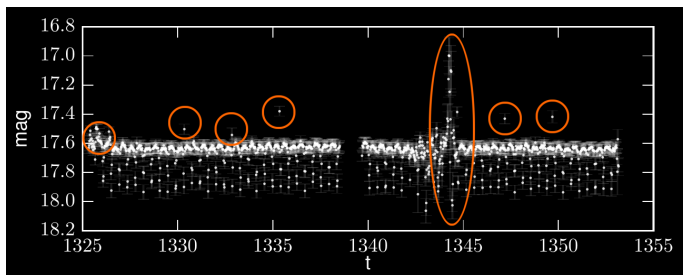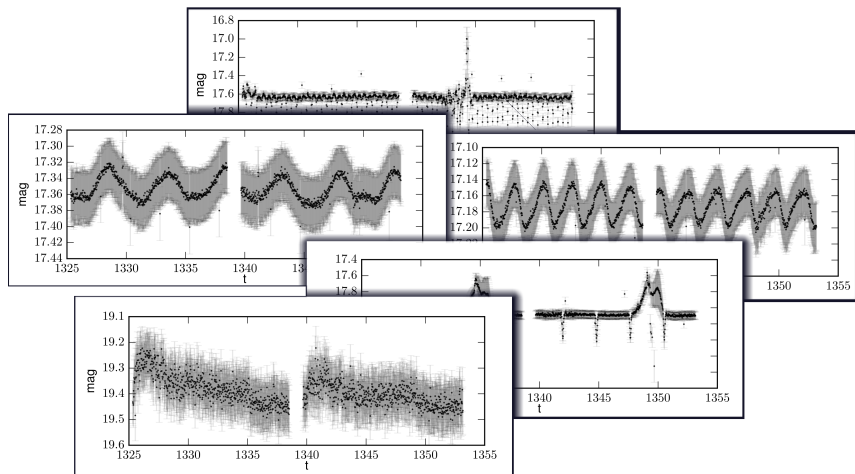
characterization and classification

GROUP	CLASS	TYPE
INTRINSIC	I. PULSATING STARS	Cepheids → Type I Classical, Type II W Virginis; RR Lyrae; RV Tauri; Long-period variables → Mira type, Semiregular
	II. ERUPTIVE (Cataclysmic stars)	Supernovae; Novae; Recurrent novae; Dwarf novae; Symbotic stars; R Coronae Borealis
EXTRINSIC	III. ECLIPSING BINARIES	
	IV. ROTATING VARIABLES	

VARIABLE STARS