Cover Page

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Proposal Category			
Life-cycle of Stars and Planets			
Proposal Type	**OM Filter Wheel Rot.**	**Large prop.**	**EPIC Extra Burst**
Fulfil	N	N	N
Proposal Title Survey of nearby Be binary candidates			
Is this proposal re-submitted from previous AOs? N		**Proposal Continued**	

Joint Proposal Information		
Chandra Time (ks):	**HST Time (orbits):**	**NuSTAR Time (ks):**
VLT Time (hours):	**SWIFT Time (ks):**	**INTEGRAL Time (ks):**
MAGIC Time (hours):	**NRAO/GBO Time (hours):**	**H.E.S.S. Time (hours):**

Abstract

We propose a fulfill program to survey 27 nearby (d<1 kpc) spectroscopically-confirmed Be stars with preference to those exhibiting an excess astrometric noise in the Gaia DR2 catalog, suggesting binarity. While the bright XRBs, such as accreting X-ray pulsars, have been studied relatively well, much less is known about binaries that are fainter in X-rays (such as gamma-ray binaries with Be stars, gamma Cas systems, Be-BH or Be-WD binaries) or simply about X-ray emission associated with Be stars. This program is designed to provide the missing information about Be stars and their companions.

(ToO type only) Remarks

Proposal Title: Survey of nearby Be binary candidates

Trigger criteria, reaction time and observing strategy

General Form

Proposal Title: Survey of nearby Be binary candidates

Co-Investigator(s)

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Observation Summary

Proposal Title: Survey of nearby Be binary candidates

Total Requested Time(ksec): 297

Obs No.	Target Name	R.A.	Dec	Prime Instrument	Prime Instrument Mode	Observation Duration (ksec)	Total Observation Time (ksec)
1	HD 106262	12 13 46.46	-63 43 28.24	EPIC	Full Frame	8	11
2	gam Cir	15 23 22.64	-59 19 14.81	EPIC	Full Frame	8	11
3	HD 135570	15 19 46.03	-67 11 26.83	EPIC	Full Frame	8	11
4	omi And	23 01 55.26	+42 19 33.53	EPIC	Full Frame	8	11
5	bet CMi	07 27 9.04	+08 17 21.54	EPIC	Full Frame	8	11
6	HD 65663	07 56 15.77	-61 05 57.95	EPIC	Full Frame	8	11
7	HD 174886	18 53 14.47	-10 13 12.47	EPIC	Full Frame	8	11
8	HD 57551	07 19 59.38	-40 29 41.60	EPIC	Full Frame	8	11
9	BD+56 579	02 22 19.13	+57 37 13.12	EPIC	Full Frame	8	11
10	BD+62 285	01 39 5.68	+63 27 46.34	EPIC	Full Frame	8	11
11	HD 98001	11 15 30.35	-56 39 41.87	EPIC	Full Frame	8	11
12	HD 237091	03 15 16.75	+59 54 49.15	EPIC	Full Frame	8	11
13	alf Col	05 39 38.94	-34 04 26.79	EPIC	Full Frame	8	11
14	CD-27 5181	08 14 3.70	-28 19 25.81	EPIC	Full Frame	8	11
15	27 CMa	07 14 15.21	-26 21 9.03	EPIC	Full Frame	8	11
16	BK Cam	03 19 59.27	+65 39 8.25	EPIC	Full Frame	8	11
17	CU Cir	15 07 30.08	-60 46 36.53	EPIC	Full Frame	8	11
18	p Car	10 32 1.46	-61 41 7.20	EPIC	Full Frame	8	11
19	j Cen	11 49 41.06	-63 47 18.52	EPIC	Full Frame	8	11
20	nu Gem	06 28 57.79	+20 12 43.69	EPIC	Full Frame	8	11
21	V959 Cen	13 15 10.01	-60 58 0.73	EPIC	Full Frame	8	11
22	eps Cas	01 54 23.73	+63 40 12.36	EPIC	Full Frame	8	11
23	ome Car	10 13 44.22	-70 02 16.46	EPIC	Full Frame	8	11
24	ups Cyg	21 17 55.08	+34 53 48.83	EPIC	Full Frame	8	11
25	phi Per	01 43 39.64	+50 41 19.43	EPIC	Full Frame	8	11
26	48 Per	04 08 39.69	+47 42 45.04	EPIC	Full Frame	8	11
27	lam Pav	18 52 13.03	-62 11 15.33	EPIC	Full Frame	8	11

Observation Constraints

Proposal Title: Survey of nearby Be binary candidates

Obs No.	Number of Repetitions	Coordinated Observation	Observation fixed in	Trigger Probability
1		N		
2		N		
3		N		
4		N		
5		N		
6		N		
7		N		
8		N		
9		N		
10		N		
11		N		
12		N		
13		N		
14		N		
15		N		
16		N		
17		N		
18		N		
19		N		
20		N		
21		N		
22		N		
23		N		
24		N		
25		N		
26		N		
27		N		

Observation Remarks

Proposal Title: Survey of nearby Be binary candidates

Obs No.	Remarks