

SOUTHERN AFRICAN LARGE TELESCOPE PHASE 1 OBSERVING TIME APPLICATION

Year	2017	Semester (1	emester $(1 = 1 May-31 Oct; 2 = 1 Nov-30 Apr)$			0 Apr)	1	Code		2017-1-SCI-030	
1. TITLE											
		ity for variable	e AGN								
	11										
2. PRINCIPAL INVESTIGATOR Surname, First Name(s) of the PI			Af	ffiliation		PI Partner (standard code)		le)	Time Requested From Partner (sec)		
Kollatschny, Wolfram				stitute for strophysics		GU 1		10770			
3. Co-INVESTIGATORS Surname, First Name(s) of the Co-I			Af	filiation		Co-I Partner (standard code)		le)	Time Requested from Partner (sec	<u> </u>	
Zetzl, Matthias				stitute for strophysics		GU					
4. PRINCIPAL CONTACT AFFILIATION Email Address & Telephone Surname, First Name(s) of the PC Number						& Telephone					
Kollatschny, Wolfram			Inst	itute for Astrop	physics wkollat@astro.phy goettingen.de +49 0551 395065						
5.					NVESTIGAT(ORS AN	ID STU	JDENT	<u>S</u>		
No tim	e has been r	equested from	the South	Afric	can TAC.						
6.	WILL TH	IS FORM PA	RT OF A	STU	DENT THES	IS ?	No				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	010111					1,0				
7.	IS THIS SU	UPPORTED	EXTERN	ALL	Y ?		No				
8.	ABSTRAC	T									
			K rav varia	tions	we intend to ca	rrv out					
	-	copic observat	•								
		OF #1 5 C = 2		T 0	DOEDLY C		-	(DYS 52-	ODI		
9.				T OI	BSERVING T					TICAL	
	er of Target t of Opporti		Voc		Total Reques)770		
	Critical Obs		No	Yes Minimum Useful Time (sec) 10770 No This is mostly a non-dark time proposa		<u> </u>					
Time		ci vation.	110		THIS IS HIOSE	y a non	dulik	time pro	рова		
10.	MINIMU	M OBSERVI	NG CON	DITI	ONS REQUI	RED					
Sky Bı	rightness		See targe	et info	ormation	Maxim	um tol	erable s	eeing	g 3.0"	
Transparency Requirements Non-photo			tome	Ÿ.			Any				
Descri	ption Th	ere are no spe	cific const	traints	S.						
11	INCORDIN	MENT CONT	TCTID AT	TONT	C DECLIECTE	'D					
11.		oscopy; 900 l			S REQUESTE	עי					
V22 10	ngsm spectr	oscopy; 900 I	iiiiii, Iuil l	ranne	;						
12.	TARGET	INFORMA	TION								

Mandatory Targets (a	all are requested to	be observed)				
Object Name	R.A. (J2000)	Dec (J2000)	Mag. (Filter)	Obs. Time (sec)	Max. Lunar Phase (%)	Ranking
3C 120	00h 00m 00s	+00° 00' 00"	14.5 (V) to 15.5 (V)	10770	100	High
Total Time/Range	00h 00m 00s	+00° 00′ 00″	14.5 (V) to 15.5 (V)	10770	100	High

Optional Targets (a subset of any N=0 targets are requested to be observed from the following list)

There are no optional targets in the proposal.

13. TRACK INFO	ORMATIO!	N			
Mandatory Targets (a	ll are reque	sted to be observed	d)		
Object Name	Visits	Obs. Time per	Max. Track	Number of	Number of
		Visit (sec)	(sec)	Tracks	Nights
3C 120	5	2154	dummy target	dummy target	dummy target

Optional Targets (a subset of any N=0 targets are requested to be observed from the following list)

There are no optional targets in the proposal.

14. PREVIOUS PROPOSALS				
Proposal Code and Title	Status (completion as of 31 January 2017)	Publications		
2015-1-SCI-068	No status supplied.			
Line profile variations in He 1136-2304	Observed 18873 / 50268 seconds (38 % completed).			
2015-1-SCI-067	No status supplied.			
Spectroscopic verification of FU- Ori type outbursts	Observed 14234 / 14400 seconds (99 % completed).			
2016-1-SCI-035	No status supplied.			
Target of opportunity for variable AGN	Observed 0 / 1800 seconds (0 % completed).			
2016-2-SCI-020	No status supplied.			
Target of opportunity for variable AGN	Observed 0 / 2400 seconds (0 % completed).			
2016-2-SCI-021	No status supplied.			
Line profile variations in PKS 1020-103	Observed 17356 / 51420 seconds (34 %			
2016-1-SCI-034	completed). No status supplied.			
2010-1-301-034	Two status supplied.			
Line profile variations in PKS 2135-14	Observed 24994 / 74367 seconds (34 % completed).			

2016-1-SCI-033	No status supplied.	
Investigating the activity state of the changing look AGN HE1136-2304	Observed 6447 / 10755 seconds (60 % completed).	
2015-1-SCI-069	No status supplied.	
Target of opportunity for variable AGN	Observed 1535 / 54276 seconds (3 % completed).	

15.	INSTRUMENT SIMULATIONS
No ins	trument simulations have been included in this proposal

The following sections have been generated by the PI using version 2017-1 of the template for Science Proposals. The page limit for these sections is $4 \times A4$ pages. Font size should not be less than 10 points.

16. SCIENTIFIC RATIONALE

This section needs to discuss the scientific background and aims of the proposal and why you want to make these observations. This section should not exceed 1000 words. Figures and graphics can be included, or appended in Section 21.

Based on optical broad band or X ray variations we intend to carry out follow-up spectroscopic observations of dedicated AGN.

17. IMMEDIATE OBJECTIVES

This section needs to present the plan of how you will use the data you will gather to achieve the science goals set out above. There is a 250 word limit.

The selection of our targets is based on observations done before in other bands.

18. DATA REQUIREMENTS FOR PROPOSAL COMPLETION

This section should explain what (if any) other observations are needed to complete the science objectives. If time is requested for more than one semester, the justification should be here. There is a 100 word limit.

19. TECHNICAL JUSTIFICATION

This section should be limited to 500 words and needs to clearly demonstrate that you have used the SALT instrument simulation tools to find a configuration which makes sense and matches your science goals, including the S/N required. It needs to verbalize the overall observing strategy and to demonstrate that you understand the overheads involved in the observations and hence a justification of the total time requested.

We will use the RSS in long-slit mode with PG0900 grating and 2" slit width.

20. REFERENCES

A list of all relevant references.

Kollatschny et al. 1985, A&A, 146, L11 Kollatschny W. 2003, A&A, 407, 461 Kollatschny & Zetzl 2010, A&A, 522, 36 Kollatschny et al. 2014, A&A, 566, 106 Kollatschny et al. 2015, A&A, 577, L1 Kollatschny et al. 2016, A&A, 585, 18 Parker, M. L., Komossa, S., Kollatschny, W., et al. 2016, MNRAS, 461, 1927

21. ADDITIONAL RELEVANT FIGURES AND GRAPHICS

Any additional figures or graphics not already inserted in the text boxes can be placed here, provided the 4 page limit is maintained.