SOUTHERN AFRICAN LARGE TELESCOPE
PHASE 1 OBSERVING TIME APPLICATION

Year	2017	Semester *(1 = 1 May-31 Oct; 2 = 1 Nov-30 Apr)*	1	Code	2017-1-SCI-030

1. TITLE
Target of opportunity for variable AGN

2. PRINCIPAL INVESTIGATOR Surname, First Name(s) of the PI	Affiliation	PI Partner (standard code)	Time Requested From Partner (sec)
Kollatschny, Wolfram	Institute for Astrophysics	GU	28002

3. Co-INVESTIGATORS Surname, First Name(s) of the Co-I	Affiliation	Co-I Partner (standard code)	Time Requested from Partner (sec)
Zetzl, Matthias	Institute for Astrophysics	GU	

4. PRINCIPAL CONTACT Surname, First Name(s) of the PC	AFFILIATION	Email Address & Telephone Number
Kollatschny, Wolfram	Institute for Astrophysics	wkollat@astro.physik.uni-goettingen.de +49 0551 395065

5. ROLE OF THE SOUTH AFRICAN INVESTIGATORS AND STUDENTS
No time has been requested from the South African TAC.

6. WILL THIS FORM PART OF A STUDENT THESIS ?	No

7. IS THIS SUPPORTED EXTERNALLY ?	No

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

9. NUMBER OF TARGETS, TOTAL OBSERVING TIME, TOO or TIME CRITICAL			
Number of Targets/Fields	1	**Total Requested Time (sec)**	28002
Target of Opportunity?	Yes	**Minimum Useful Time (sec)**	28002
Time Critical Observation?	No	**This is mostly a non-dark time proposal.**	

10. MINIMUM OBSERVING CONDITIONS REQUIRED			
Sky Brightness	See target information	**Maximum tolerable seeing**	3.0"
Transparency Requirements	Non-photometric	**Degree of cloud**	Any
Description	There are no specific constraints.		

11. INSTRUMENT CONFIGURATIONS REQUESTED
RSS longslit spectroscopy; 900 l/mm; full frame

12. TARGET INFORMATION

Mandatory Targets (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)	28002	100	High
Total Time/Range	*00h 00m 00s*	*+00° 00' 00"*	*14.5 (V) to 15.5 (V)*	*28002*	*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 INFORMATION

Mandatory Targets (all are requested to be observed)					
Object Name	***Visits***	***Obs. Time per Visit (sec)***	***Max. Track (sec)***	***Number of Tracks***	***Number of Nights***
3C 120	13	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 14 March 2017)	Publications
2015-1-SCI-068 Line profile variations in He 1136-2304	No status supplied. Observed 18873 / 50268 seconds (38 % completed).	
2015-1-SCI-067 Spectroscopic verification of FU-Ori type outbursts	No status supplied. Observed 14234 / 14400 seconds (99 % completed).	
2016-1-SCI-035 Target of opportunity for variable AGN	No status supplied. Observed 0 / 1800 seconds (0 % completed).	
2016-2-SCI-020 Target of opportunity for variable AGN	No status supplied. Observed 0 / 2400 seconds (0 % completed).	
2016-2-SCI-021 Line profile variations in PKS 1020-103	No status supplied. Observed 30428 / 51420 seconds (59 % completed).	
2016-1-SCI-034 Line profile variations in PKS 2135-14	No status supplied. Observed 24994 / 74367 seconds (34 % completed).	

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

15. INSTRUMENT SIMULATIONS
No instrument 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 × 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.