



APPLICATION FOR OBSERVING TIME (RTA)

PERIOD: **PHYS4020**

Important Notice:

By submitting this proposal, the PI takes full responsibility for the content of the proposal, in particular with regard to the names of CoIs and the agreement to act according to the ESO policy and regulations, should observing time be granted.

1.	Title	Category: X-0							
	This Is The Proposal Title This Is The Proposal Title								
2.	Abstract								
	This is a concise abstract of the proposal which may have up to 9 lines.								
3.	Run Period Instrument Time Month Moon Seeing Sky Mode Type								
	A	103	CRIRES	4h	nov	n	0.8	PHO	s
	A/alt	103	FORS2	3n=2x1+2H2	nov	n	0.8	PHO	v
	B	103	XSHOOTER	2n=2x1	dec	n	0.6	CLR	v
	C	103	NACO	0.4n	nov	n	0.8	THN	v
	D	103	XSHOOTER	1h	nov	n	1.4	THN	s
	E	104	XSHOOTER	1h	sep	n	n	THN	s
4.	N/A								
5.	Special remarks:								
	This macro is optional and can be commented out.								
6.	RTA Group: Group ID								

7. Description of the proposed programme

A – Scientific Rationale: Scientific rationale: scientific background of the project, pertinent references; previous work plus justification for present proposal.

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- This,
- That,
- The other.

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B – Immediate Objective: Immediate objective of the proposal: state what is actually going to be observed and what shall be extracted from the observations, so that the feasibility becomes clear.

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7. Description of the proposed programme and attachments



Fig. 1: A caption for your figure can be inserted here.

References can also be included using MakeCaption. For example:

References:

Blah B., 2017, MNRAS, 999, 666, 111

Meself M., et al., 2015, ApJ, 000, 111, 222

Meself M., et al., 2015, AJ, 1234, 123, 321

8. Justification of requested observing time and observing conditions

Lunar Phase Justification: Provide here a careful justification of the requested lunar phase.
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Time Justification: (including seeing overhead) Provide a careful justification of the requested number of nights or hours for each observing run here. ESO Exposure Time Calculators exist for all Paranal and La Silla instruments and are available at the following web address: <http://www.eso.org/observing/etc>.

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8a. Telescope Justification:

Justification for the use of the selected telescope (i.e., VLT) with respect to other available alternatives.

9b. Observing Mode Justification (visitor or service):

Explain if a particular observing mode (visitor or service) is specifically needed for this programme. If either can, in principle, be used then please enter N/A.

8c. Calibration Request:

Standard Calibration

9a. ESO Archive - Are the data requested by this proposal in the ESO Archive (<http://archive.eso.org>)? If so, explain the need for new data.

No data in ESO archive for any targets listed.

11. List of targets proposed in this programme

Run	Target/Field	α (J2000)	δ (J2000)	ToT	Mag.	Diam.	Additional info	Reference star
ABC	NGC 104	00 24 06	-72 04 58	3.0	5	30 min	47 Tuc	
A	NGC 253	00 47 33.1	-25 17 17.8	10.0	8		Seyfert gal.	
BC	NGC 1851	05 14 06.3	-40 02 50	8.0	8.8		glob. cluster	
B	NGC 1316	03 22 41.5	-37 12 33	15.0	9.7	10 min	Fornax A	
B	NGC 1365	03 33 36	-36 08 27	15.0	10		Seyfert gal.	
C	NGC 2997	09 45 38	-31 11 25	10.0			Sc galaxy	S133231219553
D	Alpha Ori	06 45 08.9	-16 42 58	1	-1.4	6 mas	Sirius	
E	Alpha Ori	06 45 08.9	-16 42 58	1	-1.4	6 mas	Sirius	

Target Notes: A note about the targets and/or strategy of selecting the targets during the run.

12. Scheduling requirements

This proposal involves time-critical observations, or observations to be performed at specific time intervals.

1. Run Splitting		2. Link for coordinated observation			
Run	splitting	Run 1		Run 2	delay
B	1,10s,1	B	after	A	10
		C	after	B	
		C	simultaneous	D	

3. Unsuitable period(s) of time			
Run	from	to	reason
A	15-jul-19	18-jul-19	Insert explanation of unsuitable time here.
B	15-jul-19	18-jul-19	Insert explanation of unsuitable time here.
C	20-jul-19	23-jul-19	Insert explanation of unsuitable time here.

4. Specific date(s) for time critical observations:			
Run	from	to	reason
A	12-may-19	14-may-19	Insert reason for time-critical observations.
D	1-may-19	2-may-19	Insert reason for time-critical observations.
D	17-may-19	18-may-19	Insert reason for time-critical observations.
D	23-may-19	24-may-19	Insert reason for time-critical observations.

13. Instrument configuration

Period	Instrument	Run ID	Parameter	Value or list
103	CRIRES	A	Spectroscopy	MIT
103	XSHOOTER	B	300-2500nm	IFU
103	XSHOOTER	B	IFU	100k-2x2, 100k-2x2,NDR
103	NACO	C	IMG 54 mas/px VIS-WFS	provide list of filters HERE
103	XSHOOTER	D	300-2500nm	IFU
103	XSHOOTER	D	IFU	100k-2x2, 100k-2x2,NDR
104	XSHOOTER	E	300-2500nm	IFU
104	XSHOOTER	E	IFU	100k-2x2, 100k-2x2,NDR