



APPLICATION FOR OBSERVING TIME (RTA)

PERIOD: **101A**

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.

<p>1. Title</p> <p>This Is The Proposal Title This Is The Proposal Title</p>	<p>Category: <b>X-0</b></p>																																																																						
<p>2. Abstract</p> <p>This is a concise abstract of the proposal which may have up to 9 lines.</p>																																																																							
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">3. Run</th> <th style="text-align: left;">Period</th> <th style="text-align: left;">Instrument</th> <th style="text-align: left;">Time</th> <th style="text-align: left;">Month</th> <th style="text-align: left;">Moon</th> <th style="text-align: left;">Seeing</th> <th style="text-align: left;">Sky</th> <th style="text-align: left;">Mode</th> <th style="text-align: left;">Type</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>101</td> <td>FORS2</td> <td>4h</td> <td>nov</td> <td>n</td> <td>0.8</td> <td>PHO</td> <td>s</td> <td></td> </tr> <tr> <td>A/alt</td> <td>101</td> <td>FORS2</td> <td>3n=2x1+2H2</td> <td>nov</td> <td>n</td> <td>0.8</td> <td>PHO</td> <td>v</td> <td></td> </tr> <tr> <td>B</td> <td>101</td> <td>XSHOOTER</td> <td>2n=2x1</td> <td>dec</td> <td>n</td> <td>0.6</td> <td>CLR</td> <td>v</td> <td></td> </tr> <tr> <td>C</td> <td>101</td> <td>NACO</td> <td>0.4n</td> <td>nov</td> <td>n</td> <td>0.8</td> <td>THN</td> <td>v</td> <td></td> </tr> <tr> <td>D</td> <td>101</td> <td>XSHOOTER</td> <td>1h</td> <td>oct</td> <td>n</td> <td>1.4</td> <td>THN</td> <td>s</td> <td></td> </tr> <tr> <td>E</td> <td>102</td> <td>XSHOOTER</td> <td>1h</td> <td>sep</td> <td>n</td> <td>n</td> <td>THN</td> <td>s</td> <td></td> </tr> </tbody> </table>		3. Run	Period	Instrument	Time	Month	Moon	Seeing	Sky	Mode	Type	A	101	FORS2	4h	nov	n	0.8	PHO	s		A/alt	101	FORS2	3n=2x1+2H2	nov	n	0.8	PHO	v		B	101	XSHOOTER	2n=2x1	dec	n	0.6	CLR	v		C	101	NACO	0.4n	nov	n	0.8	THN	v		D	101	XSHOOTER	1h	oct	n	1.4	THN	s		E	102	XSHOOTER	1h	sep	n	n	THN	s	
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<p>5. Special remarks:</p> <p>This macro is optional and can be commented out.</p>																																																																							
<p>6. RTA Group: <b>IIa</b></p>																																																																							
<p>6a. Co-investigators:</p> <p>L. Maçon</p> <p>R. Menéndez</p> <p>S. Bailer-Brown</p> <p>K.L. Giorgi</p>																																																																							

## 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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**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

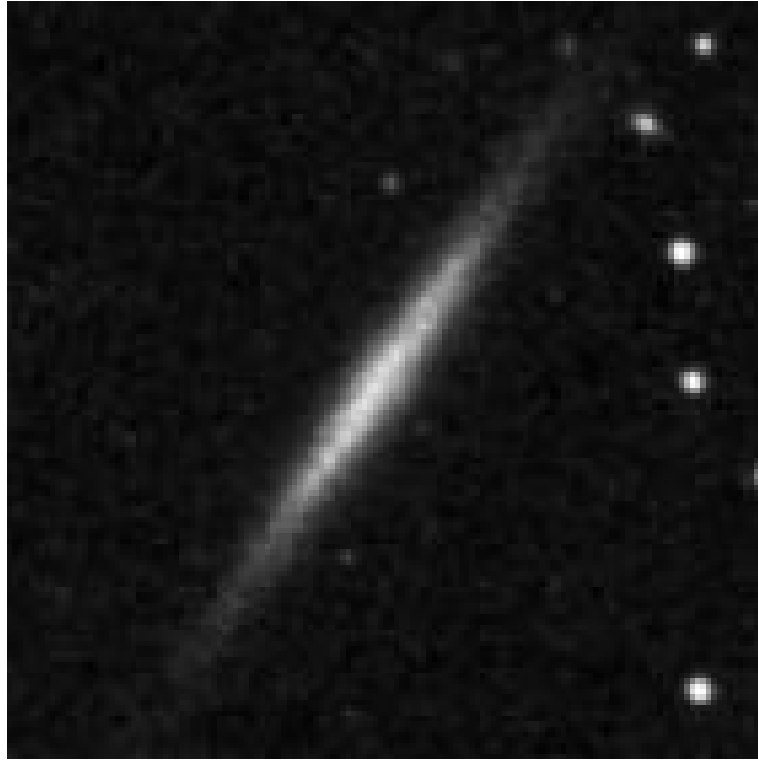


Fig. 1: A caption for your figure can be inserted here.

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.

**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>.

8a. Telescope Justification:

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

8b. 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.

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	$\alpha$ (J2000)	$\delta$ (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

Run	splitting
B	1,10s,1

### 2. Link for coordinated observation

Run 1		Run 2	delay
B	after	A	10
D	simultaneous	E	

### 3. Unsuitable period(s) of time

Run	from	to	reason
A	15-jan-17	18-jan-17	Insert explanation of unsuitable time here.
B	15-jan-17	18-jan-17	Insert explanation of unsuitable time here.

### 4. Specific date(s) for time critical observations:

Run	from	to	reason
A	12-nov-16	14-nov-16	Insert reason for time-critical observations.
D	1-nov-16	2-nov-16	Insert reason for time-critical observations.
D	17-nov-16	18-nov-16	Insert reason for time-critical observations.
D	23-nov-16	24-nov-16	Insert reason for time-critical observations.

## 13. Instrument configuration

Period	Instrument	Run ID	Parameter	Value or list
101	FORS2	A	Detector	MIT
101	FORS2	A	IMG	ESO filters: provide list HERE
101	XSHOOTER	B	300-2500nm	IFU
101	XSHOOTER	B	IFU	100k-2x2, 100k-2x2,NDR
101	NACO	C	IMG 54 mas/px VIS-WFS	provide list of filters HERE
101	XSHOOTER	D	300-2500nm	IFU
101	XSHOOTER	D	IFU	100k-2x2, 100k-2x2,NDR
102	XSHOOTER	E	300-2500nm	IFU
102	XSHOOTER	E	IFU	100k-2x2, 100k-2x2,NDR