



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: X-0</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 | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>4. N/A</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>5. Special remarks:</p> <p>This macro is optional and can be commented out.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>6. RTA Group: IIa</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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- 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

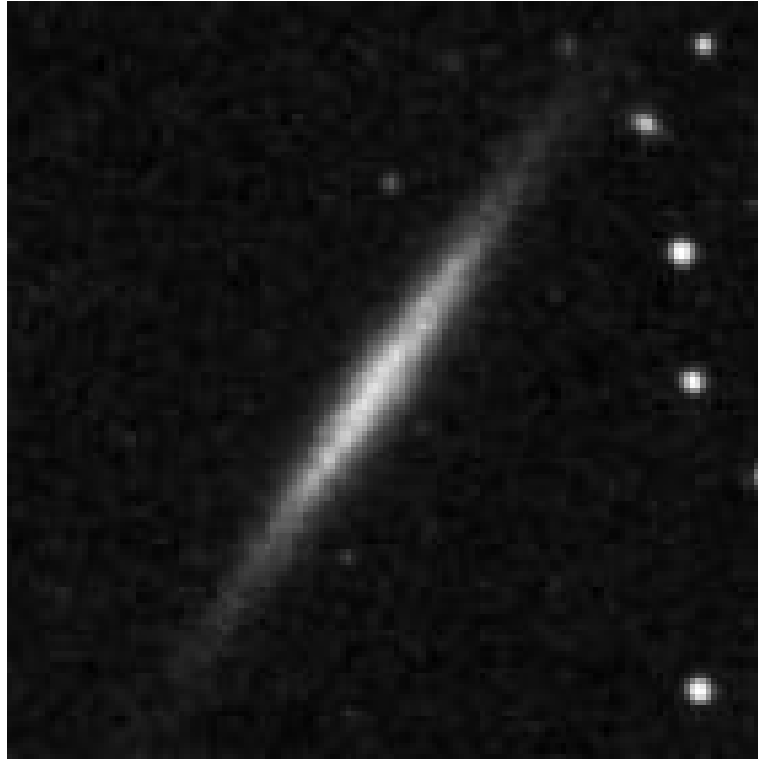


Fig. 1: A caption for your figure can be inserted here.

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>.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam faucibus iaculis aliquam. Aliquam libero est, lacinia et neque ac, dignissim viverra arcu. Suspendisse semper congue dolor, eget convallis ligula feugiat et. Nulla facilisi. Duis condimentum venenatis erat quis rhoncus. Nam risus dolor, tincidunt nec faucibus nec, commodo condimentum quam. Cras aliquet finibus pharetra. Donec ultrices neque quis justo fermentum ultricies. Fusce eget nunc non mauris semper maximus. Donec ultricies lectus nec lectus euismod rutrum. Curabitur scelerisque, libero ac ultricies iaculis, sapien ipsum tincidunt velit, at lobortis nisi massa eu risus. Aenean mi libero, egestas nec dui sit amet, consequat egestas lacus. Vivamus aliquam mi massa. Donec non ante augue.

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.

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

| 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 |