



## APPLICATION FOR OBSERVING TIME

PERIOD: **80Z**

**DDT**

### 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

<b>1. Title</b> This Is The Proposal Title This Is The Proposal Title							<b>Category: X-0</b>																																														
<b>2. Abstract / Total Time Requested</b> Total Amount of Time: This is a concise abstract of the proposal which may have up to 9 lines.																																																					
<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 Trans.</th> <th style="text-align: left;">Obs.Mode</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>80</td> <td>FORS1</td> <td>4h</td> <td>nov</td> <td>n</td> <td>≤ 0.8"</td> <td>PHO</td> <td>s</td> </tr> <tr> <td>A/alt</td> <td>80</td> <td>EMMI</td> <td>8h</td> <td>nov</td> <td>n</td> <td>≤ 0.8"</td> <td>PHO</td> <td>s</td> </tr> <tr> <td>B</td> <td>80</td> <td>AMBER</td> <td>6h</td> <td>oct</td> <td>n</td> <td>≤ 1.4"</td> <td>THN</td> <td>s</td> </tr> <tr> <td>C</td> <td>80</td> <td>MIDI</td> <td>6h</td> <td>oct</td> <td>n</td> <td>n</td> <td>THN</td> <td>s</td> </tr> </tbody> </table>									3. Run	Period	Instrument	Time	Month	Moon	Seeing	Sky Trans.	Obs.Mode	A	80	FORS1	4h	nov	n	≤ 0.8"	PHO	s	A/alt	80	EMMI	8h	nov	n	≤ 0.8"	PHO	s	B	80	AMBER	6h	oct	n	≤ 1.4"	THN	s	C	80	MIDI	6h	oct	n	n	THN	s
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<b>4. Number of nights/hours</b> a) already awarded to this project: b) still required to complete this project:				<b>Telescope(s)</b> NTT 2.2/NTT		<b>Amount of time</b> 4n in 78.B-1234 2n/20h																																															
<b>5. Special remarks:</b> Take advantage of this box to provide any special remark using up to three lines																																																					
<b>6. Principal Investigator: insert username here</b> Col(s): H. Cerny (1321), S. Bailer-Brown (1154), K.L. Giorgi (1339), S. Lichtman (1119)																																																					
<b>7. Is this proposal linked to a PhD thesis preparation? State role of PhD student in this project</b> Yes / A. Student. Data important for PhD thesis and student will lead the project / mid-course																																																					

## 8. Description of the proposed programme

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

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.

C) **Telescope Justification:** Justification for the use of the selected telescope (e.g., VLT, NTT, etc...) with respect to other available alternatives.

D) **DDT Justification:** Justification of the need for DDT.

E) **Strategy for Data Reduction and Analysis:** Brief explanation of the strategy for data reduction and analysis with description of available hardware, software, and manpower.

## 8. Attachments (Figures)



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

9. Justification of requested observing time and lunar phase

**Lunar Phase Justification:** Provide here a careful justification of the requested lunar phase.

**Time Justification: (including seeing overhead)** Provide here a careful justification of the requested number of nights or hours. 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>. Links to exposure time calculators for APEX instrumentation can be found in Sections 7.1 and 7.2 in the Call for Proposals.

**Calibration Request:** Special Calibration - Adopt a special calibration

10. Report on the use of ESO facilities during the last 2 years

Report on the use of the ESO facilities during the last 2 years (4 observing periods). Describe the status of the data obtained and the scientific output generated.

11. Applicant's publications related to the subject of this application during the last 2 years

Name1 A., Name2 B., 2001, ApJ, 518, 567: Title of article1

Name3 A., Name4 B., 2002, A&A, 388, 17: Title of article2

Name5 A. et al., 2002, AJ, 118, 1567: Title of article3

## 12. List of targets proposed in this programme

Run	Target/Field	$\alpha$ (J2000)	$\delta$ (J2000)	ToT	Mag.	Diam.	Additional info	Reference star
A	NGC 253	00 47 33.1	-25 17 17.8	4	8		Seyfert gal.	
B	Alpha Ori	05 55 10.3	+07 24 25.4	1	0.6		HIC 27989	
C	Alpha Ori	05 55 10.3	+07 24 25.4	1	0.6		HIC 27989	

Target Notes: This is a note about targets.

12b. ESO Archive - Are the data requested by this proposal in the ESO Archive (<http://archive.eso.org>)? If yes, explain why the need for new data.

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### 13. Scheduling requirements

#### 4. Link for coordinated observation

Run 1		Run 2	delay
B	after	A	2
C	after	B	

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

Run	from	to	reason
A	12-nov-07	14-nov-07	parallel observation with HST

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

Run	from	to	reason
A	15-jan-08	18-jan-08	International Conference

### 14. Instrument configuration

Period	Instrument	Run ID	Parameter	Value or list
80	FORS1	A	IMG	ESO filters: provide HERE list
80	AMBER	B	LR-HK	2.2
80	MIDI	C	PRISM	HIGH-SENS

15. List of interferometry targets proposed in this programme

Run	Name	Vmag	mag( $\lambda$ )	$\lambda_{\text{obs}}$	size( $\lambda$ )	Baseline	Vis.	mag_c	Tot
B	Alpha Ori	-1.4	-1.4	2.2	6	UT1-UT2-UT3	0.45/0.60/0.10	0.3/-0.2/4.0	2
C	Alpha Ori	-1.4	-1.4	10.6	6	G0-H0-32m	0.80	-0.9	1

VLTI Target Notes: Run B can also be carried out using the UT1-UT3-UT4 baseline.