

Instrumentes interférométriques optiques ouverts à la communauté

VLTI – proche et moyen infra rouge

- Call for Proposals de l'ESO
 - 2 appels par an → **1 appel à partir de P117**
 - Period 116 observing period: 1 October 2025 – 30 April 2026 (7 months)
 - dead line : 20 March 2025, 12:00 noon, CET
 - Period 117 observing period: May 1st 2026 and end on April 30th 2027

CHARA – proche infra rouge et visible

- Call for Proposals de NOIRLab
 - 2 appels par an
 - appel en cours : 2025B semester August 1 - December 22 (48 nuits)
 - dead line : March 31, 2025 at 11:59 pm Mountain Standard Time (MST)

appels et liens relayés par le JMMC avec l'annonce "Aspro2 ready" sur liste olbin

Tableau récapitulatif VLT

Instrument	Telescopes	Spectral Band	Typical limit Mag.	Spectral Resolution R=	P116 (after last GPAO commissioning)
AO NAOMI / 4 AT - GPAO-NGS / 4 UT					
PIONIER	AT	H- GRISMS	< 9.0	40	
GRAVITY	AT, UT	K	Mode- depending	22, 500, 4000	+1 mag
FT			9 to 16.5 Kmag (best turbulence)		
			7 to 14.5 Kmag ((worst turbulence)		
MATISSE	AT, UT	L, N	R- depending:	L(34, 506, 959)	+1 mag
GRA4MAT			1 to 17 Jy (best turbulence)	N (30,218)	
			0.08 to 0.9 Jy (worst turbulence)		GRA4MAT K10--> K11- 11.5

Tous les chiffres sur les pages News /ESO des instruments

Améliorations entre P115 et P116 → cf talk Anthony
Arrivée des instruments visiteurs ASGARD → cf talk de Frantz

GRAVITY

Table 1. K-band limiting correlated magnitudes on the ATs

		T ≤ 10% seeing ≤ 0.6" τ ₀ > 5.2ms	T ≤ 30% seeing ≤ 0.8" τ ₀ > 4.1ms	T ≤ 50% seeing ≤ 1.0" τ ₀ > 3.2ms	T ≤ 85% seeing ≤ 1.4" τ ₀ > 1.6ms
single-field on-axis	SC (=FT)	9.0 ^m	8.5 ^m	8.0 ^m	7.0 ^m
single-field off-axis	FT (no SC)	9.5 ^m	9.0 ^m	8.5 ^m	7.5 ^m
dual-field on-axis (sep. < 2.7")	FT	9.0 ^m	8.5 ^m	8.0 ^m	7.0 ^m
	SC	16.0 ^m	15.5 ^m	15.0 ^m	14.0 ^m
dual-field off-axis (1.17" < sep. < 4.0")	FT	9.5 ^m	9.0 ^m	8.5 ^m	7.5 ^m
	SC	16.5 ^m	16.0 ^m	15.5 ^m	14.5 ^m
dual-field wide (4.0"<sep.<30.0")	FT	9.5 ^m	9.0 ^m	not offered	
	SC	14.0 ^m	13.0 ^m	not offered	

Table 2. K-band limiting correlated magnitudes on the UTs (updated for P116 with new GPAO limits [+1 mag])

		T ≤ 10% seeing ≤ 0.6" τ ₀ > 5.2ms	T ≤ 30% seeing ≤ 0.8" τ ₀ > 4.1ms	T ≤ 50% seeing ≤ 1.0" τ ₀ > 3.2ms	T ≤ 85% seeing ≤ 1.4" τ ₀ > 1.6ms
single-field on-axis	SC (=FT)	11.0 ^m	10.5 ^m	10.0 ^m	9.0 ^m
single-field off-axis	FT (no SC)	11.5 ^m	11.0 ^m	10.5 ^m	9.5 ^m
dual-field on-axis (sep. < 0.6")	FT	11.0 ^m	10.5 ^m	10.0 ^m	9.0 ^m
	SC	18.0 ^m	17.5 ^m	17.0 ^m	16.0 ^m
dual-field off-axis (0.27" < sep. < 2.0")	FT	11.5 ^m	11.0 ^m	10.5 ^m	9.5 ^m
	SC	18.5 ^m	18.0 ^m	17.5 ^m	16.5 ^m
dual-field wide (2.0"< sep.< 30.0")	FT	11.5 ^m	11.0 ^m	not offered	
	SC	18.0 ^m	17.0 ^m	not offered	

PIONIER

Dispersion	Limit (H mag)	Conditions to be used in phase 1
FREE	8.6 to 9.0	$T \leq 10\%$, seeing $\leq 0.6''$, $\tau_0 > 5.2$ ms
GRISM	7.6 to 8.5	$T \leq 10\%$, seeing $\leq 0.6''$, $\tau_0 > 5.2$ ms
GRISM	6.1 to 7.5	$T \leq 30\%$, seeing $\leq 0.8''$, $\tau_0 > 4.1$ ms
GRISM	-1.0 to 6.0	$T \leq 70\%$, seeing $\leq 1.15''$, $\tau_0 > 2.2$ ms

MATISSE

	AT		UT	
	$T \leq 30\%$	$T \leq 70\%$	$T \leq 30\%$	$T \leq 70\%$
	Seeing $\leq 0.8''$	Seeing $\leq 1.15''$	Seeing $\leq 0.8''$	Seeing $\leq 1.15''$
	$\tau_0 > 4.1$ ms	$\tau_0 > 2.2$ ms	$\tau_0 > 4.1$ ms	$\tau_0 > 2.2$ ms
Low L-band	1 Jy	1.5 Jy	0.06 Jy	0.08 Jy
Low M-band	2 Jy	5 Jy	0.5 Jy	0.7 Jy
Medium L-band	8.5 Jy	10.5 Jy	0.6 Jy	0.7 Jy
Medium M-band	13 Jy	16 Jy	1.3 Jy	1.6 Jy
Low N-band*	17 Jy	17 Jy	0.9 Jy	0.9 Jy

Tableau récapitulatif CHARA

<http://www.chara.gsu.edu/observers/applying-for-chara-time>

	Mode	Telescopes	Band	Typical limit Mag=	Best performance Mag=	Spectral Resolution R=	Science Drivers
	Acquisition, AO, Tiptilt Tracking	6	V-R	10.0	12.0		
→	CLASSIC	2	H or K band	7.0	8.5	Broad band	Diameters
	CLIMB	3	H or K band	6.0	7.0	Broad band	Binaries, Disks
→	MIRC-X	6	H-PRISM50	6.5	7.5	50*	Stellar Imaging, Binaries, Disks
→	MIRC-X	6	H-GRISM190	5.5	6.5	182*	Stellar Imaging, Binaries, Disks
→	MYSTIC	6	K-PRISM49	6.5	7.5	49*	Stellar Imaging, Binaries, Disks
	PAVO	2	630-900 nm	7.0	8.0	100	Diameters
→	SPICA * Shared Risk	6	650–950 nm	5.5*	5.5*	150	Diameters, Imaging
	Silmaril * Shared Risk	3	H and K	8.5*	8.5*	35	High sensitivity

→ talk de Denis