

Targets for Italian GTO on VISA, period 84

Title: The inner disk of Herbig Ae/Be systems

PI: A. Natta - (INAF- Arcetri)

Co_I: M. Benisty (INAF- Arcetri), F. Massi (INAF- Arcetri), L. Testi (ESO, INAF-Arcetri).

Abstract: We propose to continue our AMBER/VLTI low resolution observations of intermediate-mass young stars, started in P79, to perform a detailed study of the geometry of their inner circumstellar disks. In P84, we propose to observe 3 targets at different hour angles with the ATs.

Configurations: E0-G0-H0 or A0-D0-H0 depending on target.

Mode: LR-HK with FINITO. In visitor mode (excepted HR5999, in service).

Number of hours: we propose a total of 2 half nights (~ 10 hrs) and 2.5 more hrs for this program.

| TargetName | RA | DEC | AMBERCONFIG | TIMEREQUESTED | MODE |
|------------|-------|---------|-------------|---------------|-----------------|
| HD37806 | 05 41 | 02.2927 | -02 43 | 00.729 | E0-G0-H0 2.5h v |
| HD50138 | 06 51 | 33.3984 | -06 57 | 59.442 | E0-G0-H0 2.5h v |
| HD50138 | 06 51 | 33.3984 | -06 57 | 59.442 | A0-D0-H0 5h v |
| HR5999 | 16 08 | 34.2868 | -39 06 | 18.337 | E0-G0-H0 2.5h s |

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Title: Resolving the inner gaseous regions in the circumstellar environment of Herbig Ae/Be stars.

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Abstract: We propose to use the unique capabilities of the VLTI/AMBER instrument to perform a detailed study of the wind launching regions around HD104237, by observing the spectral region across its Br_gamma emission line that traces the surrounding hot gas.

Configurations: D0-H0-G1 and E0-G0-H0;

Mode: AMBER MR-K-F. In visitor mode.

Number of hours: we propose a total of two half nights for this program (i.e. 10hours).

| TargetName | RA | DEC | AMBERCONFIG | TIMEREQUESTED |
|------------|-------|---------|-------------|--------------------|
| HD104237 | 12 00 | 05.0846 | -78 11 | 34.564 D0-H0-G1 5h |
| HD104237 | 12 00 | 05.0846 | -78 11 | 34.564 E0-G0-H0 5h |