

**Italian GTO time request on VISA - Period 81.**

**Program 1**

Disk-jet interactions in the young stars HD 98922 and V921 Aql.

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We propose to use 2 nights of the italian VISA GTO time in Period 81 to study disks and circumstellar gas in young, intermediate mass stars. In particular, we are interested in investigating the region of emission of the hydrogen recombination line Br gamma at 2.17 microns, which is strong in these two stars.

We propose to observe these two sources with AMBER/VLTI with the ATs in two different configurations each (D0-G1-H0 and A0-D0-G1), which offer baselines in the range 40 to 70 m, and two separate hour angles. With these data we will be able to compare the observations with detailed disk and jet models.

Sources:

HD 98922 11 22 31.7 -53 22 11.5 K=4.3  
V 921 Aql 20 03 02:51 +05 44 16.7 K=5.0

Instrument setup: AMBER MR-K, 2.1micron

VLTI configurations:

D0-G1-H0 - 2 hour angles: total 0.5n per star  
A0-D0-G1 - 2 hour angles: total 0.5n per star

Fringe Tracker: FINITO

Total time requested: 2 nights

**Program 2.**

Unveiling the binary nature of the classical cepheid X-Sgr

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Target information:

Name: X Sgr  
coordinates (2000): 17:47:33.62 -27:49:50.8  
K-mag= 2.5 mag

Obs. modes: AMBER-LR

Total time requested: 9hrs (2 visibility measurements per night repeated for three nights)