J/A+A/639/A47 SPHERE and NaCo images of HD 19467B (Maire+, 2020)

Orbital and spectral characterization of the benchmark T-type brown dwarf HD 19467B.

Maire A.-L., Molaverdikhani K., Desidera S., Trifonov T., Molliere P., D'Orazi V., Frankel N., Baudino J.-L., Messina S., Mueller A., Charnay B., Cheetham A.C., Delorme P., Ligi R., Bonnefoy M., Brandner W., Mesa D., Cantalloube F., Galicher R., Henning T., Biller B.A., Hagelberg J., Lagrange A.-M., Lavie B., Rickman E., Segransan D., Udry, S., Chauvin G., Gratton R., Langlois M., Vigan A., Meyer M.R., Beuzit J.-L., Bhowmik T., Boccaletti A., Lazzoni C., Perrot C., Schmidt T., Zurlo A., Gluck L., Pragt J., Ramos J., Roelfsema R., Roux A., Sauvage J.-F.

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=2020A&A...639A..47M (SIMBAD/NED BibCode)

ADC_Keywords: Stars, double and multiple ; Optical

Keywords: brown dwarfs - methods: data analysis - stars: individual: HD 19467 - techniques: high angular resolution - planet and satellites: dynamical evolution and stability - techniques: image processing

Abstract:
HD 19467 observations were performed with the VLT exoplanet imager SPHERE and the VLT adaptive optics camera NaCo to further characterize the spectral and orbital properties of the known T-type brown dwarf companion.

Description:
The SPHERE and NaCo high-contrast images processed with angular differential imaging are provided. The SPHERE and NaCo/Lp images were processed with TLOCI-ADI (see Galicher et al., 2018A&A...615A..92G) and are normalized to the stellar peak (contrast with respect to the star). The NaCo/Mp image was processed with PCA (see Cheetham et al., 2019A&A...622A..80C).

Objects:

RA (2000)	DE	Designation(s)
03 07 18.58	-13 45 42.4	HD 19467 = HIP 14501

File Summary:

FileName	Lrecl	Records	Explanations
ReadMe	80	.	This file
list.dat	116	6	List of fits files
fits/*	0	6	Individual fits files

Byte-by-byte Description of file: list.dat

Bytes	Format	Units	Label	Explanations
1- 2	I2	h	RAh	Right Ascension of center (J2000)
4- 5	I2	min	RAm	Right Ascension of center (J2000)
7- 10	F4.1	s	RAs	Right Ascension of center (J2000)
11	A1	---	DE-	Declination sign of center (J2000)
12- 13	I2	deg	DEd	Declination of center (J2000)
15- 16	I2	arcmin	DEm	Declination of center (J2000)
18- 21	F4.1	arcsec	DEs	Declination of center (J2000)
23- 26	I4	---	Nx	Number of pixels along X-axis
28- 31	I4	---	Ny	Number of pixels along Y-axis
33- 56	A24	"datime"	Obs.date	Observatino date
58- 61	I4	Kibyte	size	Size of FITS file
63- 76	A14	---	FileName	Name of FITS file, in subdirectory fits
78-116	A39	---	Title	Title of the FITS file

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