



Publication Year	2020
Acceptance in OA	2021-11-23T10:04:22Z
Title	VizieR Online Data Catalog: SPHERE and NaCo images of HD 19467B (Maire+, 2020)
Authors	Maire, A. -L., Molaverdikhani, K., DESIDERA, Silvano, Trifonov, T., Molliere, P., D'ORAZI, VALENTINA, Frankel, N., Baudino, J. -L., Messina, S., Mueller, A., Charnay, B., Cheetham, A. C., Delorme, P., Ligi, R., Bonnefoy, M., Brandner, W., MESA, DINO, 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, Raffaele, 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.
Publisher's version (DOI)	10.26093/cds/vizier.36390047
Handle	http://hdl.handle.net/20.500.12386/31118
Journal	VizieR Online Data Catalog



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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.

<Astron. Astrophys. 639, A47 (2020)>

=[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:

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

Acknowledgements:Anne-Lise Maire, [almaire\(at\)uliege.be](mailto:almaire(at)uliege.be)

(End)

Patricia Vannier [CDS] 19-May-2020

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