



HAL
open science

Evidence of a discontinuous disk structure around the Herbig Ae star HD 139614 (Corrigendum)

A. Matter, L. Labadie, A. Kreplin, B. Lopez, S. Wolf, G. Weigelt, S. Ertel, J.
-U. Pott, W. C. Danchi

► **To cite this version:**

A. Matter, L. Labadie, A. Kreplin, B. Lopez, S. Wolf, et al.. Evidence of a discontinuous disk structure around the Herbig Ae star HD 139614 (Corrigendum). *Astronomy and Astrophysics - A&A*, EDP Sciences, 2019, 632, 10.1051/0004-6361/201322042e . insu-03635478

HAL Id: insu-03635478

<https://hal-insu.archives-ouvertes.fr/insu-03635478>

Submitted on 10 Apr 2022

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Distributed under a Creative Commons Attribution| 4.0 International License

Evidence of a discontinuous disk structure around the Herbig Ae star HD 139614[★] (Corrigendum)

A. Matter^{1,★★}, L. Labadie², A. Kreplin¹, B. Lopez³, S. Wolf⁴, G. Weigelt¹, S. Ertel⁵, J.-U. Pott⁶, and W. C. Danchi⁷

¹ Max Planck Institut für Radioastronomie, Auf dem Hügel 69, 53121 Bonn, Germany
e-mail: Alexis.Matter@oca.eu

² I. Physikalisches Institut, Universität zu Köln, Zùlpicher Str. 77, 50937 Köln, Germany

³ Laboratoire Lagrange, CNRS UMR 7293, UNS – Observatoire de la Côte d’Azur BP 4229, 06304 Nice Cedex 4, France

⁴ Institut für Theoretische Physik und Astrophysik, Universität zu Kiel, Leibnitzstr. 15, 24098 Kiel, Germany

⁵ UJF-Grenoble 1/CNRS-INSU, Institut de Planétologie et d’Astrophysique de Grenoble (IPAG) UMR 5274, Grenoble, 38041, France

⁶ Max Planck Institut für Astronomie, Königstuhl 17, 69117 Heidelberg, Germany

⁷ NASA/GSFC, Greenbelt, MD 20771, USA

A&A, 561, A26 (2014), <https://doi.org/10.1051/0004-6361/201322042>

Key words. instrumentation: high angular resolution – instrumentation: interferometers – techniques: interferometric – stars: pre-main sequence – protoplanetary disks – errata, addenda

The original article contains three typos, which are corrected below.

Section 4.2: a factor $\frac{1}{d^2}$ is missing in the expression (2) of the visibility. The correct expression for the visibility to consider is:

$$V_{\lambda,\text{disk}}(B_p(i, \theta)) = \frac{1}{F_{\lambda}(0)} \frac{1}{d^2} \int_{r_{\text{in}}}^{r_{\text{out}}} B_{\lambda}(T_r) \epsilon_{\tau} J_0 \left[\frac{2\pi}{\lambda} B_p(i, \theta) \frac{r}{d} \right] 2\pi r dr. \quad (2)$$

Section 4.2.1: a modulus symbol is missing at the numerator of the expression (6) of the visibility. The correct expression for the visibility to consider is:

$$V_{\text{tot},1} = \frac{|F_{*}(\lambda) + F_{\lambda,\text{disk}}(i) V_{\lambda,\text{disk}}(B_p(i, \theta))|}{F_{*}(\lambda) + F_{\lambda,\text{disk}}(i)}. \quad (6)$$

Section 4.2.2: a modulus symbol is missing at the numerator of the expression (11) of the visibility. The correct expression for the visibility to consider is:

$$V_{\text{tot},2} = \frac{|F_{*}(\lambda) + F_{\lambda,\text{disk}_h}(i) V_{\lambda,\text{disk}_h}(B_p(i, \theta)) + F_{\lambda,\text{disk}}(i) V_{\lambda,\text{disk}}(B_p(i, \theta))|}{F_{*}(\lambda) + F_{\lambda,\text{disk}_h}(i) + F_{\lambda,\text{disk}}(i)}. \quad (11)$$

All the visibility calculations presented in the original article were based on the correct expressions above.

[★] Based on observations collected at the European Southern Observatory, Chile (ESO IDs: 385.C-0886(A) and 087.C-0811(A)).

^{★★} *Current address:* Observatoire de la Côte d’Azur, Boulevard de l’Observatoire, CS 34229, 06304 Nice, France.