


Studying star-forming processes at core and clump scales: the case of the young stellar object G29.862–0.0044 (Corrigendum)

M. B. Areal¹ , S. Paron¹, C. Fariña^{2,3}, M. E. Ortega¹, M. Celis Peña¹, and M. Rubio⁴

¹ CONICET – Universidad de Buenos Aires. Instituto de Astronomía y Física del Espacio CC 67, Suc. 28, 1428 Buenos Aires, Argentina

e-mail: belenareal@gmail.com

² Isaac Newton Group of Telescopes, 38700, La Palma, Spain

³ Instituto de Astrofísica de Canarias (IAC) and Universidad de La Laguna, Dpto. Astrofísica, Spain

⁴ Departamento de Astronomía, Universidad de Chile, Casilla 36-D, Santiago, Chile

A&A, 641, A104 (2020), <https://doi.org/10.1051/0004-6361/202038243>

Key words. stars: formation – stars: protostars – ISM: jets and outflows – ISM: molecules – errata, addenda

In the original article, a molecular emission line was not correctly identified. One of the used pieces of millimeter data obtained from the Atacama Large Millimeter Array database was incorrectly identified as the CH₃OCHO 20(2,19)–19(2,18)E line. The analyzed emission corresponds to the cyano radical (CN) $N=2-1$, $J=5/2-3/2$, $F=7/2-5/2$ line at 226874.764 MHz, which can be blended with the $F=5/2-3/2$ and $F=3/2-1/2$ lines at 226874.183 and 226875.896 MHz, respectively. Hence, in Figs. 4, 5 and 7 of the original paper, the CN integrated emission is presented.

This misunderstanding does not alter any conclusion made in the original paper. The discussion regarding the morphology of the integrated CH₃OCHO emission and its relations with the infrared data still applies to the CN emission in the same

way. As some works show (Han et al. 2015; Qiu et al. 2012; Zapata et al. 2008; Beuther et al. 2004), extended CN emission is usually detected towards molecular cores and star-forming regions, and this type of emission usually extends in filaments and concentrates in knots as is the case in G29.862–0.0044. In a following, paper we will study the CN emission towards a large sample of molecular cores, including this particular source (Paron et al., in prep.).

References

- Beuther, H., Schilke, P., & Wyrowski, F. 2004, *ApJ*, 615, 832
Han, X. H., Zhou, J. J., Wang, J. Z., et al. 2015, *A&A*, 576, A131
Qiu, K., Zhang, Q., Beuther, H., & Fallscheer, C. 2012, *ApJ*, 756, 170
Zapata, L. A., Palau, A., Ho, P. T. P., et al. 2008, *A&A*, 479, L25