On the massive young stellar object AFGL 4176

High-spatial-resolution multi-wavelength observations and modeling
(Corrigendum)

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We would like to correct an error in the position angle reported by Boley et al. (2012) for the disk model of the massive young stellar object AFGL 4176. The error arose due to a problem with the angle conventions used, and had no influence on the modeling of the data. The correct position angle ϕ is related to the previously reported (incorrect) value ϕ' by $\phi = 270° - \phi'$. After correcting for this error, the position angle ϕ of the disk we find is 112° east of north (the value we reported previously was 158°, and should be disregarded). Although none of the other derived parameters are affected by this error, we report this corrected value in order to facilitate an easy comparison with future spatially-resolved interferometric studies in the (sub-)mm and/or near-infrared ranges for this particular object. We include here corrected versions of Fig. 12 and Table 4, and apologize for any confusion which may have occurred.

Table 4. Two-dimensional geometric fit parameters.

Parameter	Best fit value
r_{o}	158 mas[a]
p	0.467
ϕ	112°
θ	59.7°
$F_{\mathrm{G}}/F_{\mathrm{D}}$	1.64
θ_{G}	143 mas[b]

Notes. [a] 552 AU at the near distance; 836 AU at the far distance. [b] 500 AU at the near distance; 757 AU at the far distance.
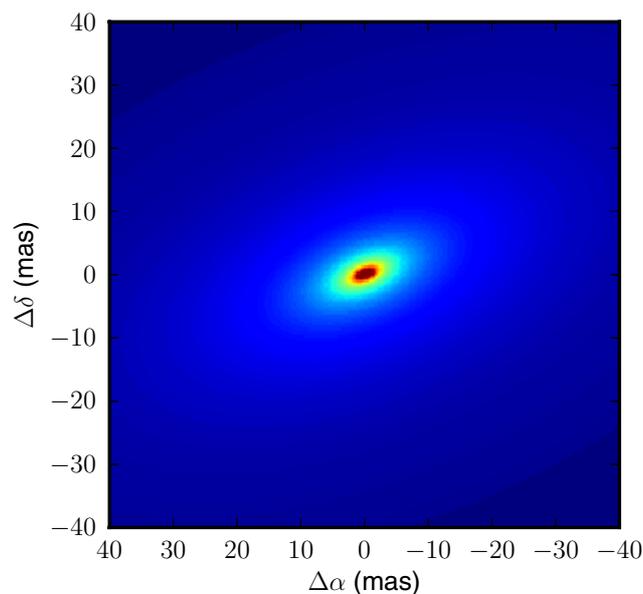

Fig. 12. Image of the fit of the disk model to the mid-infrared visibilities at $\lambda = 10.6\,\mu$m.

References

Boley, P. A., Linz, H., van Boekel, R., et al. 2012, A&A, 547, A88