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ERRATUM: “POLARIMETRIC IMAGING OF LARGE CAVITY STRUCTURES IN THE PRE-TRANSITIONAL PROTOPLANETARY DISK AROUND PDS 70: OBSERVATIONS OF THE DISK” (2012, *ApJL*, 758, L19)

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Online-only material: color figure

We report an error in calculating the contrast curve in the L' -band LOCI image of PDS 70. In the published version of this Letter, the contrast in the bottom right panel in Figure 2 was overestimated by a factor of 10 because we measured it relative to the *peak* flux of the central star. The detectable mass limit for companions within the gap around PDS 70, therefore, was also overestimated by about 10 times.

We have recalculated the contrast and corrected Figure 2. The contrast was calculated relative to the *photometric* counts within a PSF-size circular aperture with a diameter of 5 pixels, which is a robust method for contrast calculation. Note that since we only recalculated the contrast without reprocessing the LOCI reduction, the appearance of the disk in the L' -band LOCI image in Figure 2(c) is same as in the original figure. Taking into account this revision, we put an upper limit of ~ 2 to $\sim 4 M_J$ on the mass of companions within the gap around PDS 70.

Figure 2. Observational results of PDS 70. Note that only panel (f) was revised in this Erratum. (a): H -band PI image of PDS 70 with a software mask with $0''.4$ diameter. (b): same with (a), but its features. The solid ellipse indicate the ring-like disk. The filled circle represents the geometric center of the disk. (c): L' -band LOCI image of PDS 70 with a software mask with $0''.4$ diameter. The parameters in LOCI reductions are described in Section 2.2. The field of view (FOV) in the three images is $3''.0 \times 3''.0$. These three images were convolved with spatial resolution. (d) and (e): radial profiles at yellow hatched regions of minor and major axes in (b). The values of the profile at northwest and southwest are multiplied by 10 for presentation. (f): detectable mass at 5σ around PDS 70 based on the L' -band LOCI image. The LOCI parameters are same with those described in Section 2.2, but the optimization area is $250 \times \text{FWHM}$ ($N_A = 250$).

(A color version of this figure is available in the online journal.)