

Performance study of ground-based infrared Bracewell interferometers

Application to the detection of exozodiacal dust disks with GENIE (Corrigendum)

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In p. 789 of the published article, Eq. (3) should be corrected to

$$N_{LD} = 1/\rho_{LD} = \frac{\pi^2}{4} \left(\frac{B\theta_{LD}}{\lambda} \right)^2 \left(1 - \frac{7u_\lambda}{15} \right) \left(1 - \frac{u_\lambda}{3} \right)^{-1}, \quad (1)$$

with θ_{LD} the limb-darkened stellar angular radius. When equating this corrected equation to Eq. (2) of Absil et al. (2006), one can derive the expression of the ratio θ_{LD}/θ_{UD} between the limb-darkened and uniform-disk angular radii that produce the same null depth, which now agrees with Eq. (5) of Hanbury Brown et al. (1974).

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References

- Absil, O., den Hartog, R., Gondoin, P., et al. 2006, A&A, 448, 787
Hanbury Brown, R., Davis, J., Lake, R. J. W., & Thompson, R. J. 1974, MNRAS, 167, 475

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