



Fig. A.1. SPIRE colors F_{250}/F_{350} (*left panel*) and F_{350}/F_{500} (*right*) vs. galactocentric distance R_{opt} . As in Fig. 8, points are coded by their oxygen abundance, with filled symbols corresponding to $R/R_{opt} \le 0.8$ and open ones to larger radii.





Fig. B.1. Surface brightness profiles at SPIRE 250 μ m and IRAC 3.6 μ m. The profiles with convolution (see Aniano et al. 2012) are shown by symbols (green) open squares, 250 μ m, and ((purple) open stars, 3.6 μ m). The Muñoz-Mateos et al. (2009a) IRAC profiles are shown by a dotted curve, and the IRAC and 250 μ m profiles extracted without convolution (and with different methods of sky subtraction) are shown by solid curves. The dashed lines indicate the best-fit disk model fitted from 0.6* R_{opt} . The vertical dotted lines indicate the optical radius, R_{opt} , and 1.5 R_{opt} .



Fig. B.1. continued.



Fig. B.1. continued.



Fig. B.1. continued.

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Fig. B.1. continued.

Appendix C: Radial surface brightness profiles with MBBV and DL07 fits



Fig. C.1. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. *The bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.2. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.3. *Left panel*: surface brightness profiles for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. Profiles are extracted as in Munoz-Mateos et al. (2009); those profiles are shown by solid lines, while the profiles presented here extend beyond the symbols as dashed lines. The vertical dashed lines indicate the optical radius, R_{opt} and 1.5 R_{opt} . *Right panel*: radial temperature trends T_{dust} vs. R/R_{opt}. For this galaxy, there are no radial bins having data with sufficient signal-to-noise to fit.



Fig. C.4. *Left panel*: surface brightness profiles for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. Profiles are extracted as in Munoz-Mateos et al. (2009); those profiles are shown by solid lines, while the profiles presented here extend beyond the symbols as dashed lines. The vertical dashed lines indicate the optical radius, R_{opt} and 1.5 R_{opt} . *Right panel*: radial temperature trends T_{dust} vs. R/R_{opt} . For this galaxy, there are no radial bins having data with sufficient signal-to-noise to fit.



Fig. C.5. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.6. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.6. continued.



Fig. C.7. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.8. *Left panel*: surface brightness profiles for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. Profiles are extracted as in Munoz-Mateos et al. (2009); those profiles are shown by solid lines, while the profiles presented here extend beyond the symbols as dashed lines. The vertical dashed lines indicate the optical radius, R_{opt} and 1.5 R_{opt} . *Right panel*: radial temperature trends T_{dust} vs. R/R_{opt} . For this galaxy, there are no radial bins having data with sufficient signal-to-noise to fit.



Fig. C.9. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.10. *Top left panel:* surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel:* radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.11. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.12. *Top left panel:* surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel:* radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 , μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.13. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.14. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.15. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.16. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.17. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.18. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.19. *Left panel*: surface brightness profiles for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. Profiles are extracted as in Munoz-Mateos et al. (2009); those profiles are shown by solid lines, while the profiles presented here extend beyond the symbols as dashed lines. The vertical dashed lines indicate the optical radius, R_{opt} and 1.5 R_{opt} . *Right panel*: radial temperature trends T_{dust} vs. R/R_{opt} . For this galaxy, there are no radial bins having data with sufficient signal-to-noise to fit.



Fig. C.20. Top left panel: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. Top right panel: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The bottom panels show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.21. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.22. Top left panel: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. Top right panel: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The bottom panels show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.23. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.24. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.25. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.26. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.27. *Top left panel:* surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel:* radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.28. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.29. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.30. Top left panel: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. Top right panel: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The bottom panels show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.31. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.32. *Top left panel:* surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel:* radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.33. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.34. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.35. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.36. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.37. *Top left panel:* surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel:* radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.38. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.39. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.39. continued.



Fig. C.40. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.41. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.42. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.43. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.44. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.45. *Top left panel:* surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel:* radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.46. Top left panel: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. Top right panel: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The bottom panels show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.47. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.48. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.49. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.50. *Top left panel:* surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel:* radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.51. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.52. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.53. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.54. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.55. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.

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Fig. C.55. continued.



Fig. C.56. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.57. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.58. Top left panel: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. Top right panel: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The bottom panels show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.59. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.



Fig. C.60. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.

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Fig. C.61. *Top left panel*: surface brightness profiles, Σ_{IR} , for PACS, MIPS, SPIRE, and IRAC 3.6 μ m. *Top right panel*: radial temperature trends T_{dust} and emissivity index trends β vs. normalized radii, R/R_{opt} . Sets of fluxes are defined over ≥ 4 wavelengths. The *bottom panels* show each individual SED fit, Σ_{IR} vs. wavelength, with best-fit temperature and emissivity index β . The DL07 best-fit models are shown as a (blue) dashed line, and the MBBV fits as a (red) solid one. S/N lower limit = 3.0. The 70 μ m (PACS+MIPS) and 500 μ m points are excluded from the fits.