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Erratum: Towards cosmological concordance on galactic scales

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The paper 'Towards cosmological concordance on galactic scales' was published in Mon. Not. R. Astron. Soc. **345**, 923–938 (2003).

The 2dFGRS luminosity function (LF) which was provided to us was incorrectly normalized (values were too low by about ∼15 per cent). As we used this LF to constrain our models for the conditional luminosity function (CLF), the normalizations of all our models are incorrect by a similar amount. Using the properly normalized 2dFGRS LF, we have repeated the entire analysis described in the paper. This results in a number of small modifications of most figures (only Figures 2, 4 and 8 are unaffected), and of the actual confidence levels on Ω_m and σ_8 reported in the paper. The most important effect is that for a given cosmology, the best-fitting value of the average mass-to-light ratio of clusters decreases by about 15 percent. This in turn, implies that, under the prior that $\langle M_{\rm vir}/L\rangle_{\rm cl} = (350 \pm 70)\, h\, {\rm M}_\odot$, the best-fitting value of σ_8 increases by about 8 per cent. In particular, equation (17) should read

$$\sigma_8 = 0.73 \left[\frac{\langle M_{\rm vir}/L\rangle_{\rm cl}}{350\, h\, {\rm M}_\odot}\right]^{0.5} \qquad (1)$$

with equation (33) changing accordingly. The new version of the paper, including the corrected constraints and the corresponding figures, is available at http://xxx.lanl.gov/abs/astro-ph/0301104, or, upon request, directly from the authors.

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