Erratum: The host dark matter haloes of [O II] emitters at 0.5 < z < 1.5

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Since publication of 'The host dark matter haloes of [O II] emitters at 0.5 < z < 1.5' in 2018, MNRAS 474 (3), 4024–4038, we have become aware of an error in equation (1), that describes the mean halo occupation distribution (HOD) of central galaxies as the sum of a soft step function and an exponentially modified Gaussian. The correct equation is as follows:
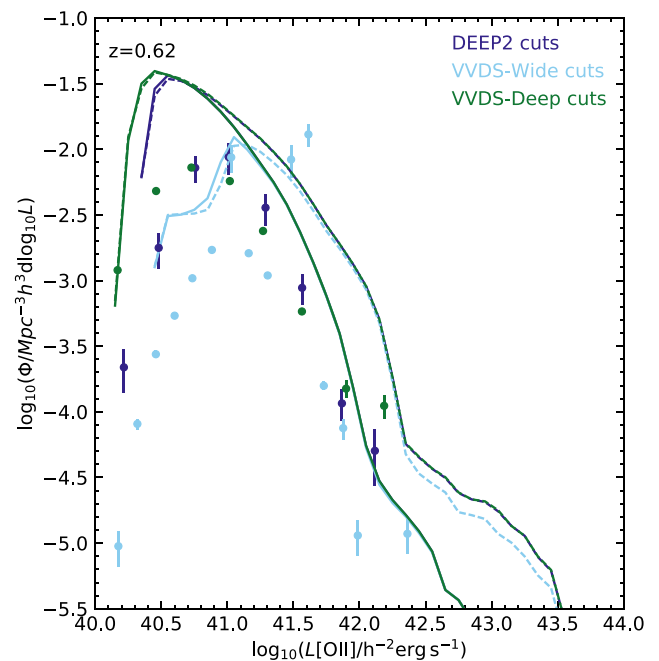
$$\langle N \rangle_{\mathrm{cen}} = \frac{f_b}{2} \left(1 + \mathrm{erf}\left(\frac{\log_{10}\mathrm{M}_* - \log_{10}\mathrm{M}_b}{\sigma} \right) \right)$$
$$+ \frac{f_d}{2} e^{\frac{\alpha_d}{2}\left(2\log_{10}\mathrm{M}_d + \alpha_d\sigma^2 - 2\log_{10}\mathrm{M}_* \right)}$$
$$\times \mathrm{erfc}\left(\frac{\log_{10}\mathrm{M}_d + \alpha_d\sigma^2 - \log_{10}\mathrm{M}_*}{\sigma\sqrt{2}} \right) \quad (1)$$

The correct equation was used for the calculations performed in the published work (as found in https://github.com/viogp/plots4papers/blob/master/elg_hod_plots/fit/hod_functions.py), so the results, discussion and conclusions remain the same.

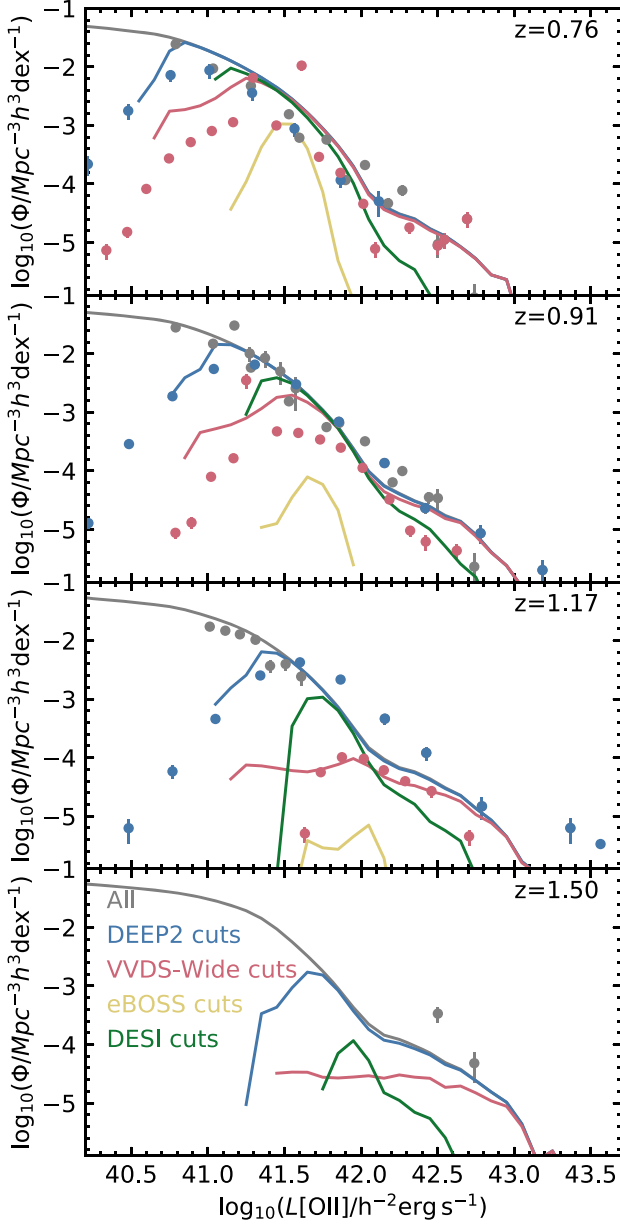Due to a problem with filter naming, the selection for VVDS was effectively done with the *r*-band, instead of the indicated *i*-band in table 2 from the original paper (Gonzalez-Perez et al. 2018). This error modifies quantitatively figs 4, 5, 6, 8, 9, 10 and 13 in the original paper, however these figures remain qualitatively the same. Thus, both the discussion and conclusions derived from these figures also remain the same. We have included here the new figures. This discrepancy was corrected in the later work we presented also on the physics of ELGs (Gonzalez-Perez et al. 2020).

We note that in the figures presented here some differences can be seen for the eBOSS selection compared to the original paper. This is due to a bug fixed in the model. These differences do not change the conclusions derived in the published paper.
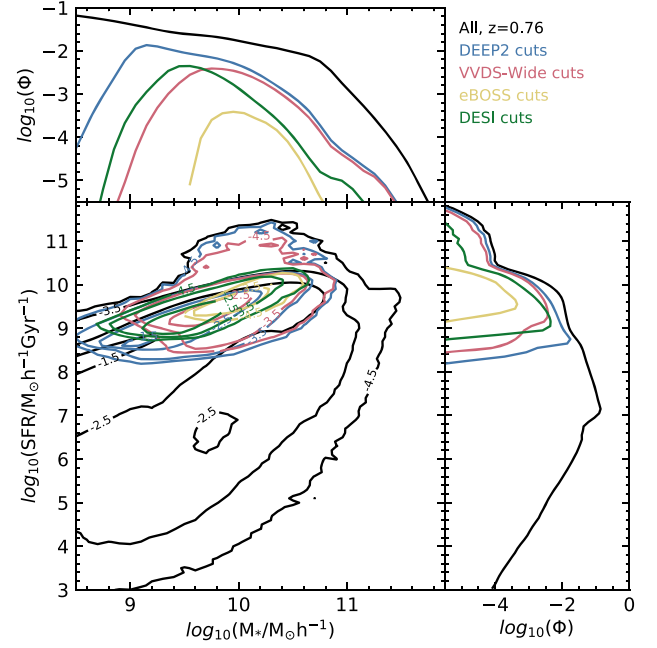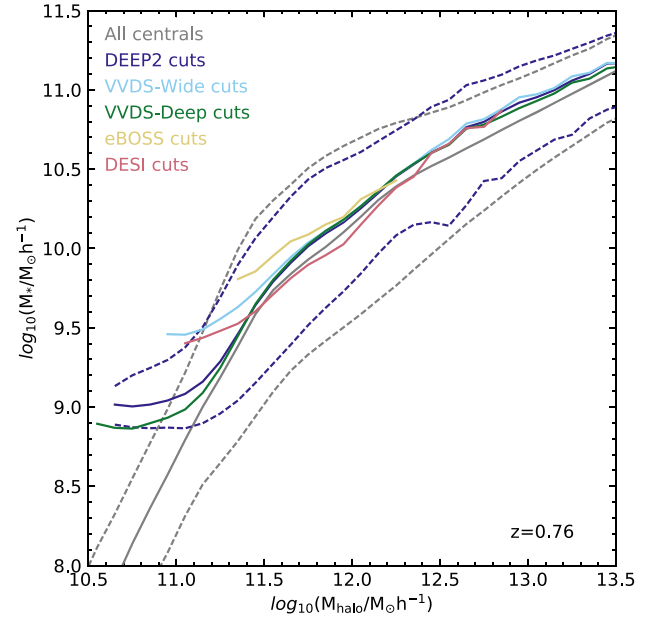

Figure 1. Corrected version of fig. 4 in the originally published paper. The corrections affect both VVDS and eBOSS cuts, as detailed in the text. These corrections do not impact the original results.

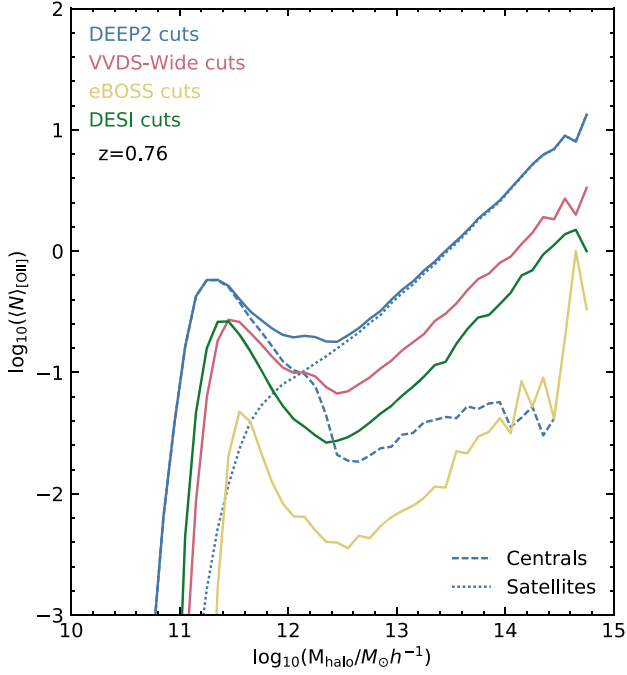★ E-mail: violetagp@protonmail.com

Figure 2. Corrected version of fig. 5 in the originally published paper. The corrections affect both VVDS and eBOSS cuts, as detailed in the text. These corrections do not impact the original results.
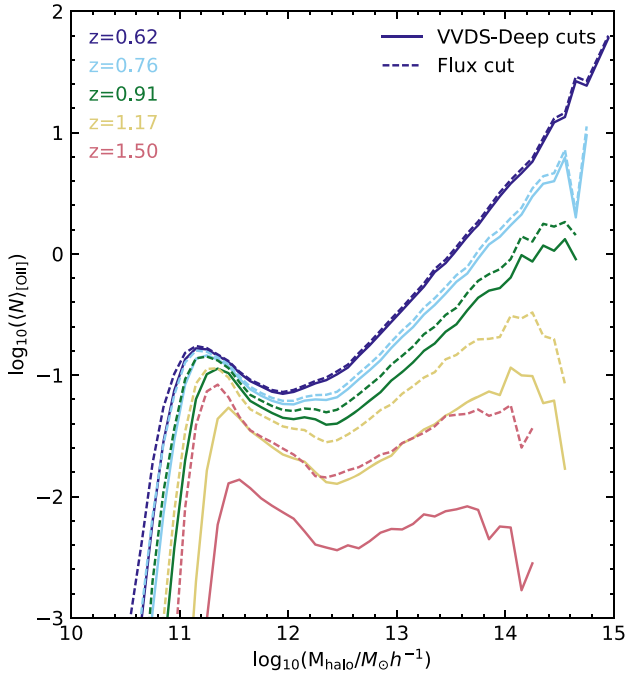

Figure 3. Corrected version of fig. 6 in the originally published paper. The corrections affect both VVDS and eBOSS cuts, as detailed in the text. These corrections do not impact the original results.
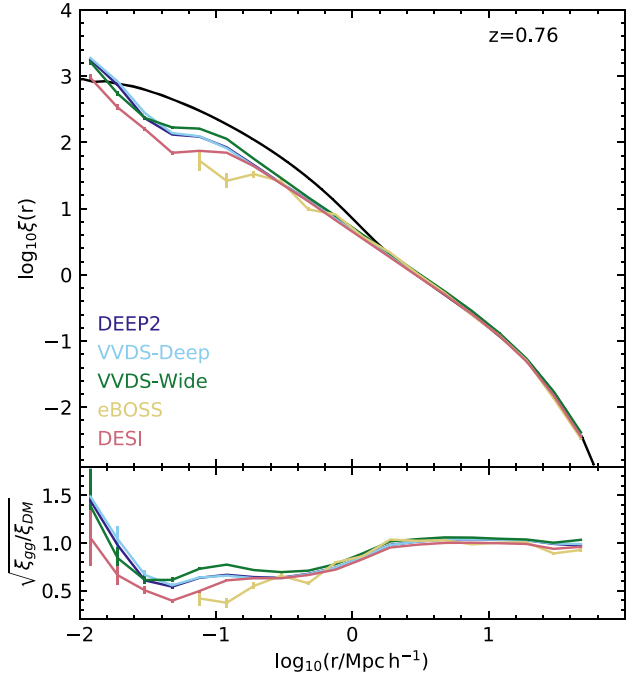

Figure 4. Corrected version of fig. 8 in the originally published paper. The corrections affect both VVDS and eBOSS cuts, as detailed in the text. These corrections do not impact the original results.

Figure 5. Corrected version of fig. 9 in the originally published paper. The corrections affect both VVDS and eBOSS cuts, as detailed in the text. These corrections do not impact the original results.

Figure 7. Corrected version of fig. 13 in the originally published paper. The corrections affect both VVDS and eBOSS cuts, as detailed in the text. These corrections do not impact the original results.

REFERENCES

Gonzalez-Perez V. et al., 2018, MNRAS, 474, 4024
Gonzalez-Perez V. et al., 2020, MNRAS, 498, 1852

This paper has been typeset from a TEX/LATEX file prepared by the author.

Figure 6. Corrected version of fig. 10 in the originally published paper. The corrections affect both VVDS and eBOSS cuts, as detailed in the text. These corrections do not impact the original results.