Erratum: Choirs, H I galaxy groups: catalogue and detection of star-forming dwarf group members

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The paper ‘Choirs, HI galaxy groups: catalogue and detection of star-forming dwarf group members’ was published in MNRAS 433(1), 543–559 (Sweet et al. 2013). Two methods for calculating the HI deficiency parameter were presented in Section 3.7. For method (1) there was an error in the transformation used to scale our Survey for Ionization in Neutral Gas Galaxies (Meurer et al. 2006) R-band (AB) magnitudes (Mag_{R_{AB}}) to the SuperCosmos magnitudes (Mag_{R_{SC}}) on which Dénès, Kilborn & Koribalski (2014) was based. The transformation should be \[ Mag_{R_{SC}} = -8.52 + 0.63 Mag_{R_{AB}}. \]

We note that Dénès et al. (2014) subsequently presented an updated, slightly different R-band scaling relation, which does not affect our results.

In Fig. 1 we show the replacement H I deficiency figure. Methods (1) (upper panel) and (2) (lower panel, scaling from H α luminosity and R-band surface brightness) are now in closer agreement. Our main previous finding is unchanged: the Choir groups are not significantly HI-deficient in either method for calculating HI deficiency. HIPASS J1059-09 is now HI deficient in both methods, though not at a significant level. As before, HIPASS J1403-06 was found to be marginally HI deficient by method (2) and not method (1), and is likely dominated by high Hα equivalent width starbursting galaxies.

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Figure 1. Distribution of H\textsubscript{i} deficiency parameter DEF\textsubscript{HI} for each Choir group, defined as the logarithmic difference between observed group H\textsubscript{i} mass and predicted group H\textsubscript{i} mass (determined by summing the predicted H\textsubscript{i} masses of the individual group galaxies). Our groups are on average not significantly H\textsubscript{i} deficient. Upper panel: expected H\textsubscript{i} mass based on $R$-band magnitude. Lower panel: expected H\textsubscript{i} masses based on our equation (2). Two very H\textalpha–luminous group, HIPASS J1059-09 and J1403-06 are not significantly H\textsubscript{i} deficient by either definition.

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