Studying the ISM at \sim 10 pc scale in NGC 7793 with MUSE

I. Data description and properties of the ionised gas (Corrigendum)

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The parametrisation of the MUSE line spread function (LSF) provided in the original paper refers to the instrumental full width at half maximum (FWHM) and not to \(\sigma\), as mentioned in the text and erroneously assumed when fitting the H\(\alpha\) line. Figure 1 shows the revised H\(\alpha\) velocity dispersion map. Figures 2 and 3 illustrate the updated ‘BPT-\(\sigma\)’ line ratio diagram and \(\sigma_{H\alpha}\) distribution. For the latter distribution, we now recover median values (±first, third quartiles) of \(\sigma_{H\alpha,\text{HII}} = 18.8^{+5.2}_{-6.1}\) km s\(^{-1}\) and \(\sigma_{H\alpha,\text{DIG}} = 26.1^{+5.4}_{-5.3}\) km s\(^{-1}\). The general trends stated in the original paper remain unchanged.

In the original manuscript there has also been a mistake in the computation of the fraction of diffuse ionised gas (\(f_{\text{DIG}}\)). The corrected fractions are the following: \(f_{\text{DIG}} \sim 15\% (21\%)\) for the H\(\alpha\) sample and \(f_{\text{DIG}} \sim 21\% (27\%)\) for the H\(\alpha/\text{[SII]}\) sample, where we have indicated the values prior to reddening correction in parenthesis.

![Fig. 1. Revised version of Fig. 3 from the original paper.](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAA...)

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Fig. 2. Revised version of Fig. 18 from the original paper.
Fig. 3. Revised version of Fig. 19 from the original paper.