Plots re-done

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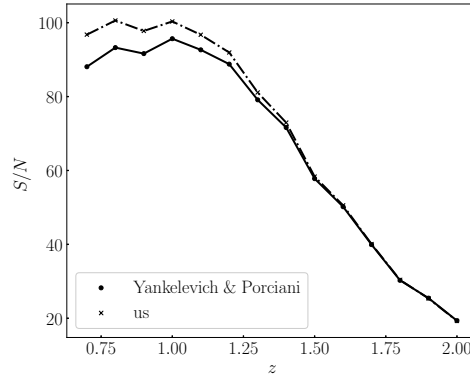
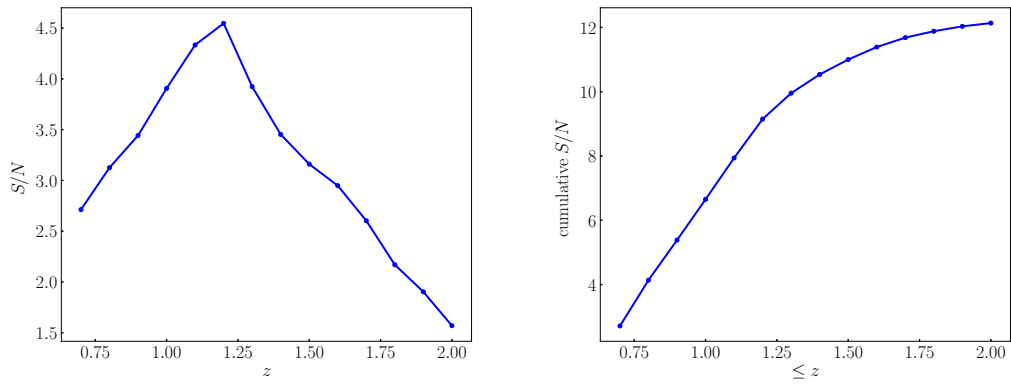**Figure 1**. Reproduction of Yankelevich & Porciani Newtonian SNR.

Figure 2. Relativistic SNR per z-bin (*left*) and cumulative (*right*) for a Stage IV $H\alpha$ survey
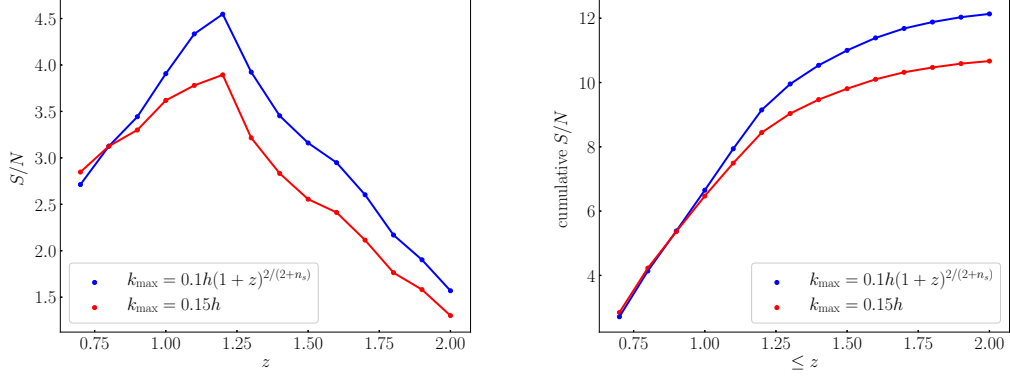
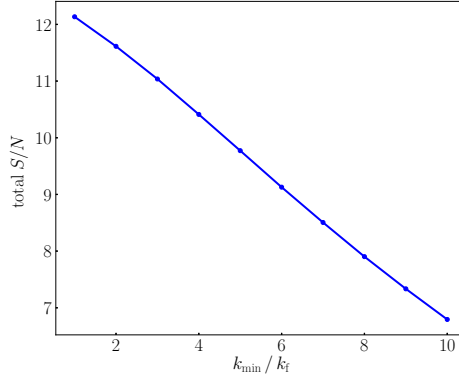**Figure 3**. Effect of changing k max on SNR z-per bin (*left*) and cumulative SNR (*right*).

Figure 4. Effect of changing $k_{\min}$ on total relativistic SNR
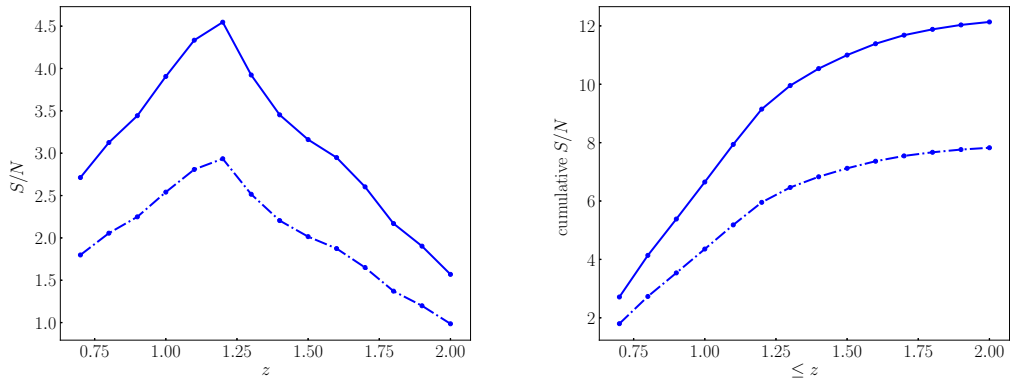

Figure 5. The effect of omitting the second-order relativistic contribution to the bispectrum (dot-dashed curves)
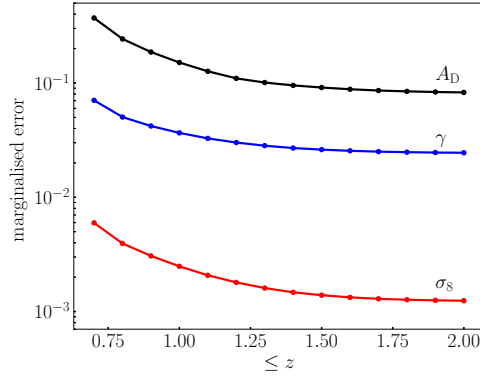
Figure 6. Marginal errors on the relativistic contribution, growth index and clustering amplitude, using the full bispectrum.