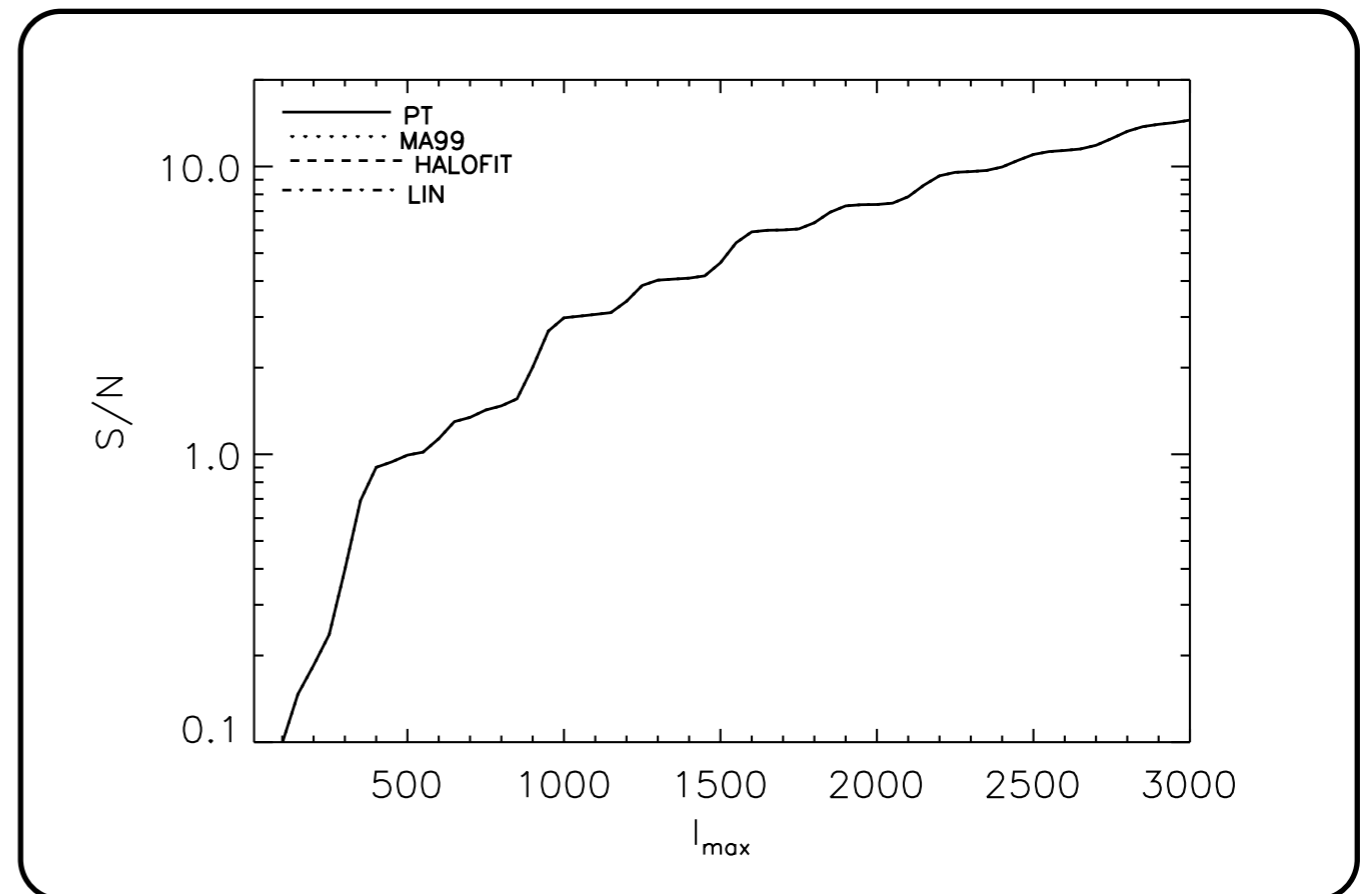


**Aim:** Reexamine the effect of non-linear matter clustering on the L-RS-bispectrum comparing three different approaches: the 3rd-order perturbation theory (**3PT**), and two empirical fitting formulae **MA99** and **HALOFIT**.



## Results:

- L-RS bispectrum peaks in the squeezed limit, for which the smallest multipole corresponds to the multipole of the **linear** lensing-ISW cross-correlation power spectrum - **S/N** dominated by **linear contribution**
- For all non-linear models, the  $\chi^2$  differences are **below unity** - differences too small to detect
- Non-linearity does not affect the contamination of  $f_{\text{NL}}$