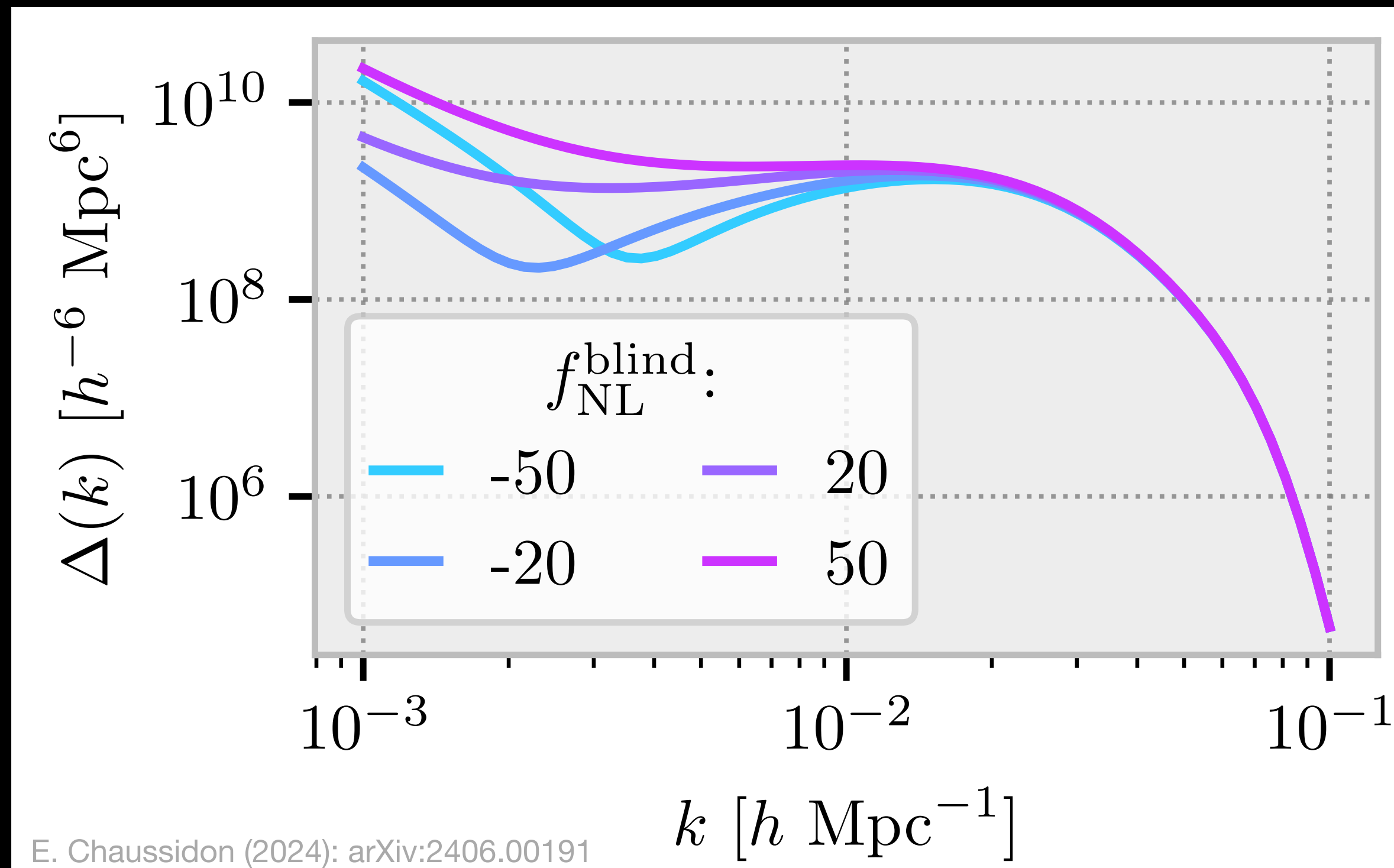


How is the DESI BAO analysis different?

- **Third step:** weights-based blinding f_{NL}

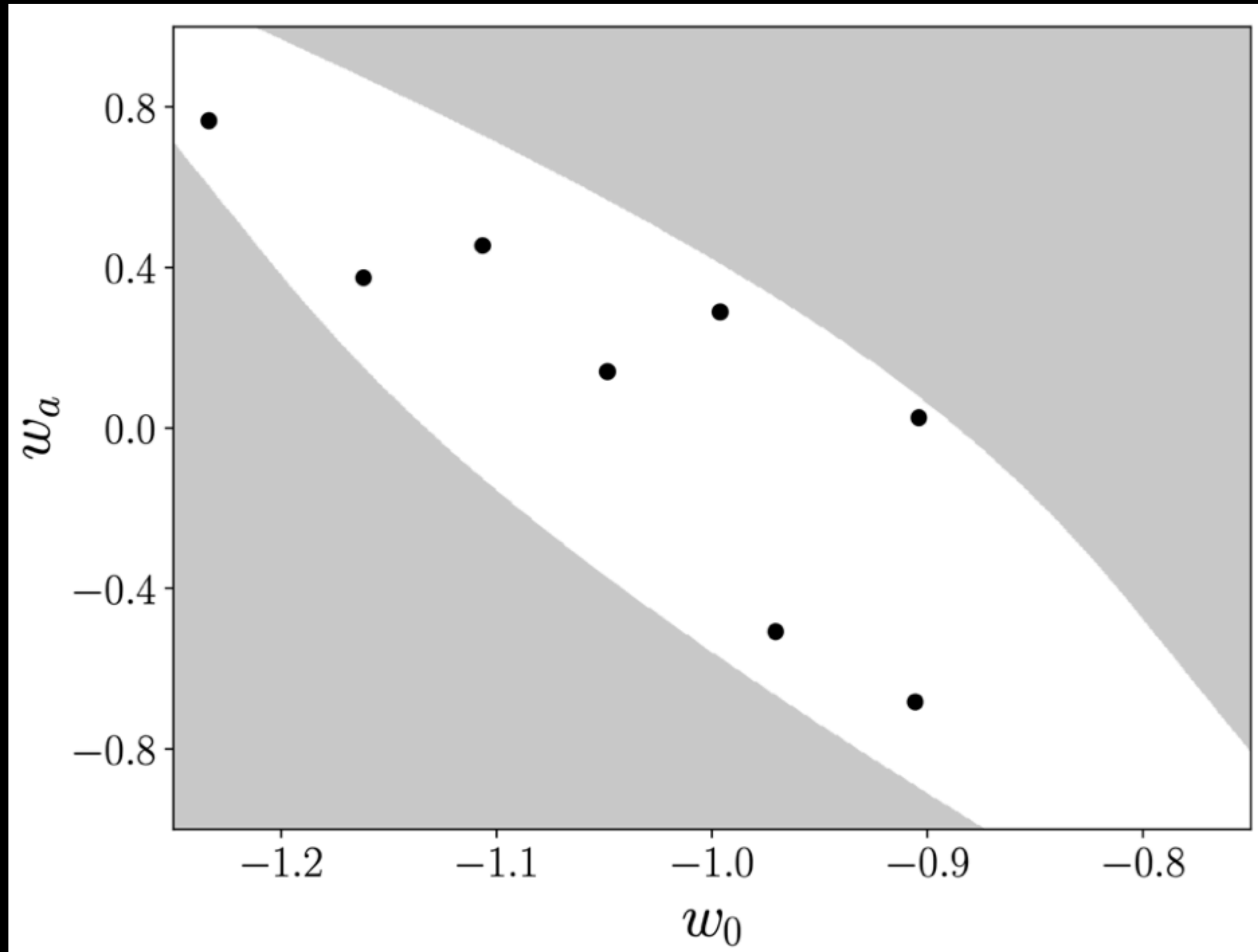


$$P(k, z) = \left(b(z) + \frac{b_{\Phi}(z)}{\alpha(k, z)} f_{\text{NL}}^{\text{loc}} \right)^2 P_{\text{lin}}(k, z)$$

$$w_{\text{blind}}(k) = \frac{b_{\Phi} f_{\text{NL}}^{\text{blind}}}{b \alpha(k)} \times \hat{\delta}^r(k)$$

Alters the measured power spectrum at large scales by including in the catalog an *additional set of **weights***, multiplied by the traditional ones.

How is the DESI BAO analysis different?



- **Additional requirement:** shifts in the blinded cosmology to specific regions within the (w_0, w_a) parameter space
- shifts in f do not exceed 10 % of the fiducial value, $f_{\text{fid}} = 0.8$
- 3 % for $\alpha_{\perp}, \alpha_{\parallel}$ from unity

Validating the Galaxy and Quasar Catalog-Level Blinding Scheme for the DESI 2024 analysis: [U. Andrade et al \(2024\): arXiv:2404.07282](https://arxiv.org/abs/2404.07282)