

CMB bispectrum from non-linear dynamics

- Einstein and Boltzmann equations are non-linear
 - Gaussian initial conditions evolve into non-Gaussian features in the CMB
- It is crucial to include this 2nd-order bias in data analysis
 - Bias could be as large as *PLANCK* error bars: $\Delta f_{\text{NL}} = \text{few}$
 - $f_{\text{NL}} = 32 \pm 5$ -> about 10% of the signal
 - $f_{\text{NL}} = 10 \pm 5$ -> really important contribution
- Our 2nd-order Boltzmann code to estimate Δf_{NL} is fast, stable... and almost done.

