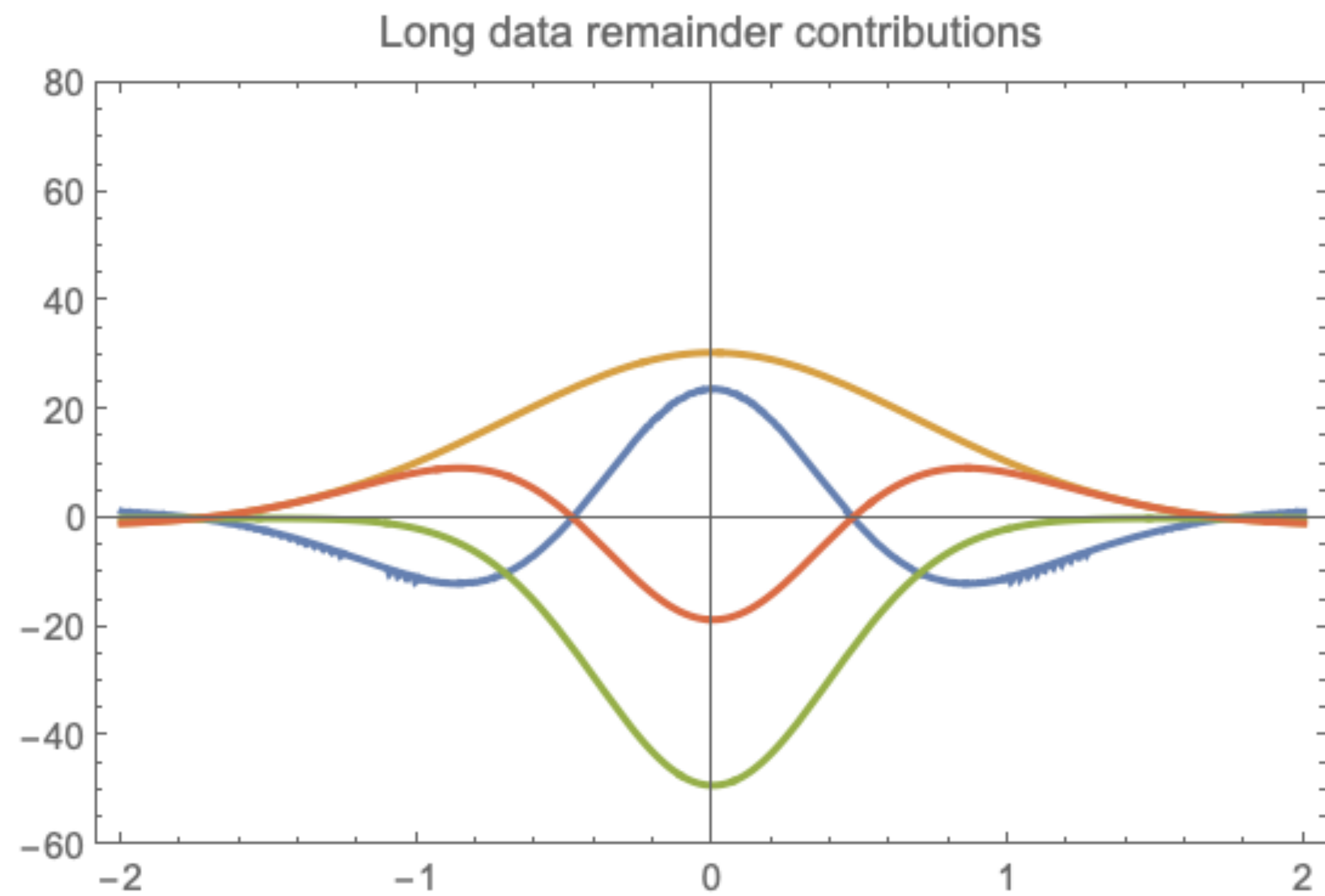


# PQS

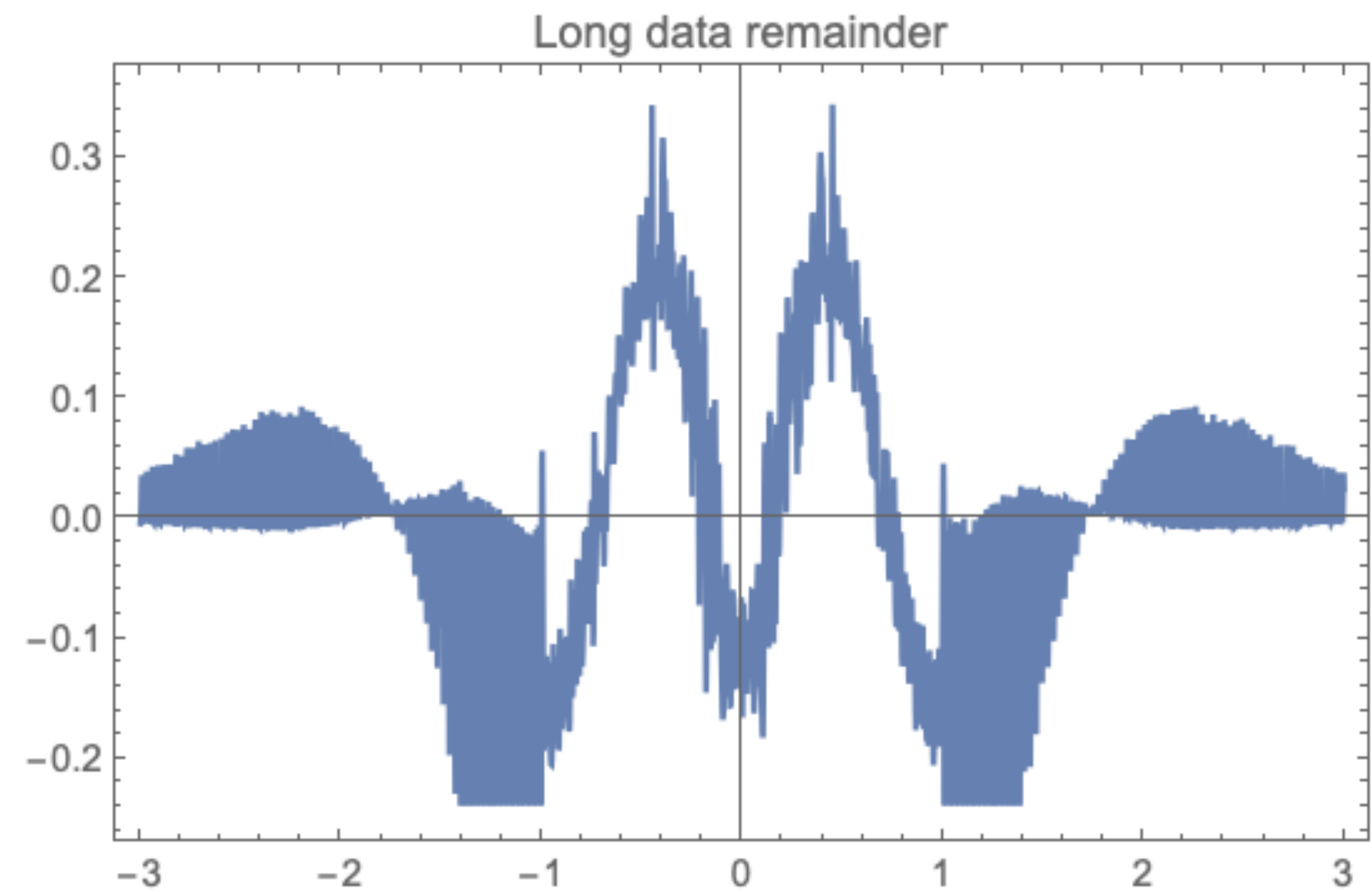
**Meeting 2022-02-09 3:30pm**

Cory Aitchison

# Remainder



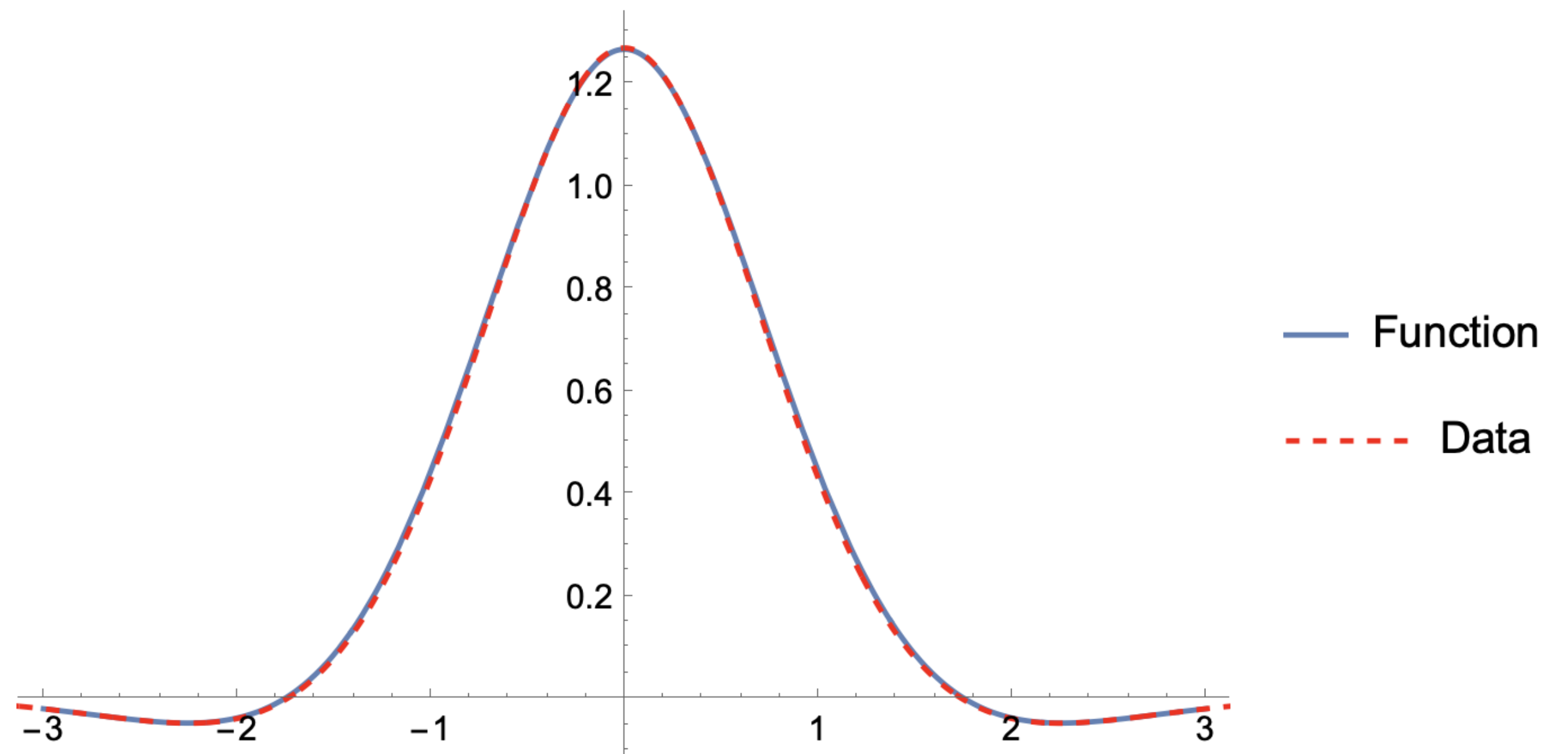
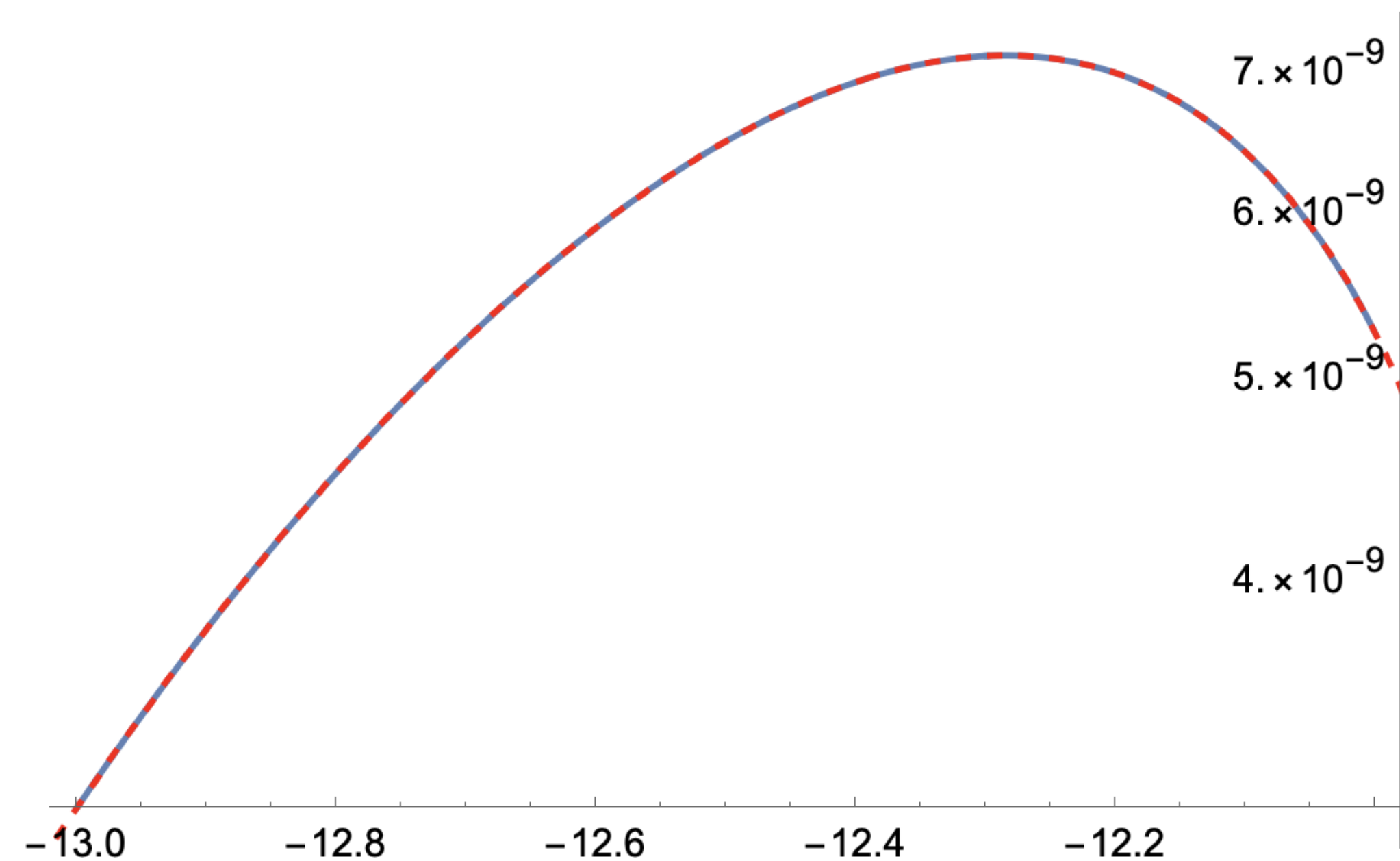
- 4th deriv (scaled)
- linear
- cubic
- linear+cubic



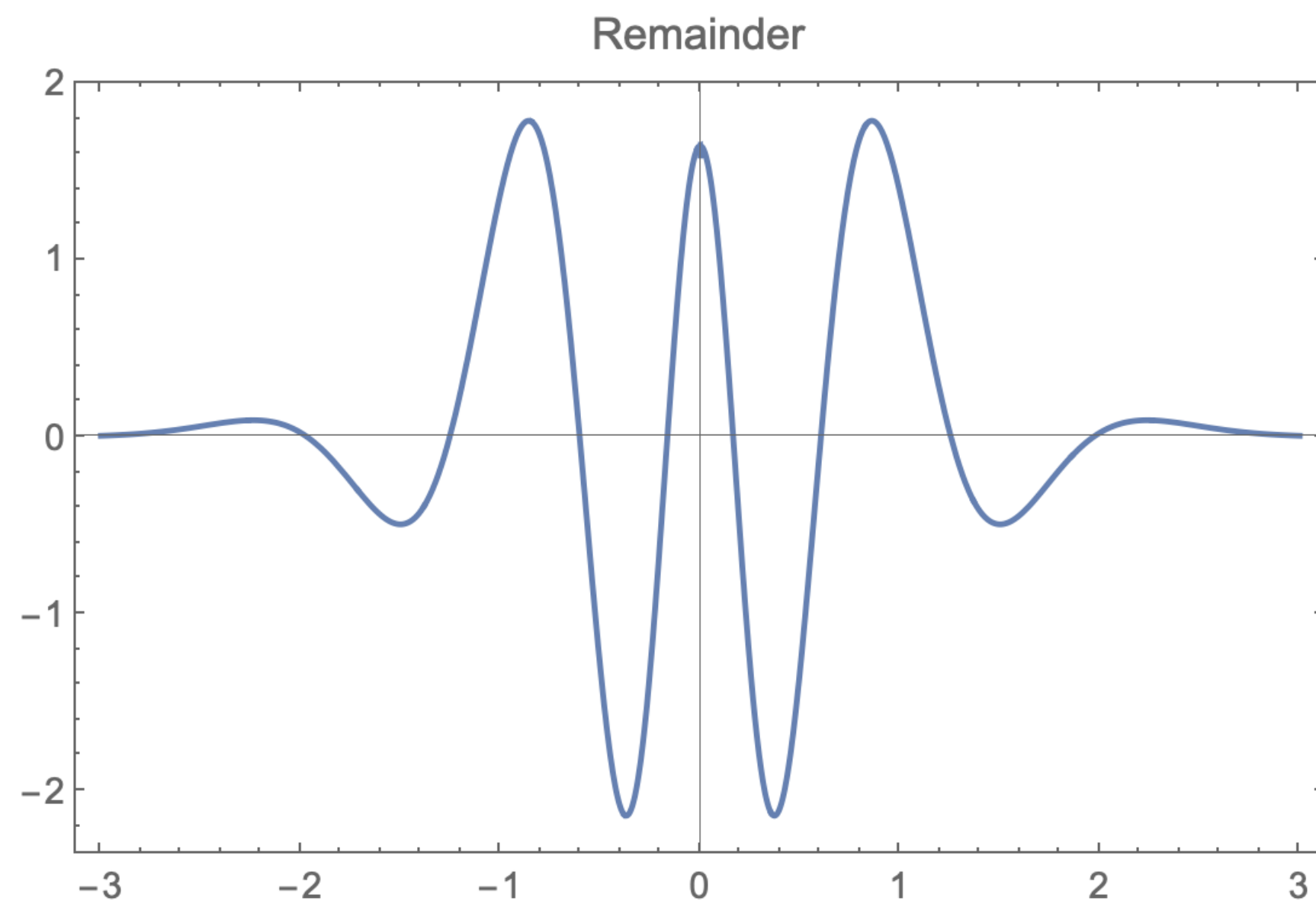
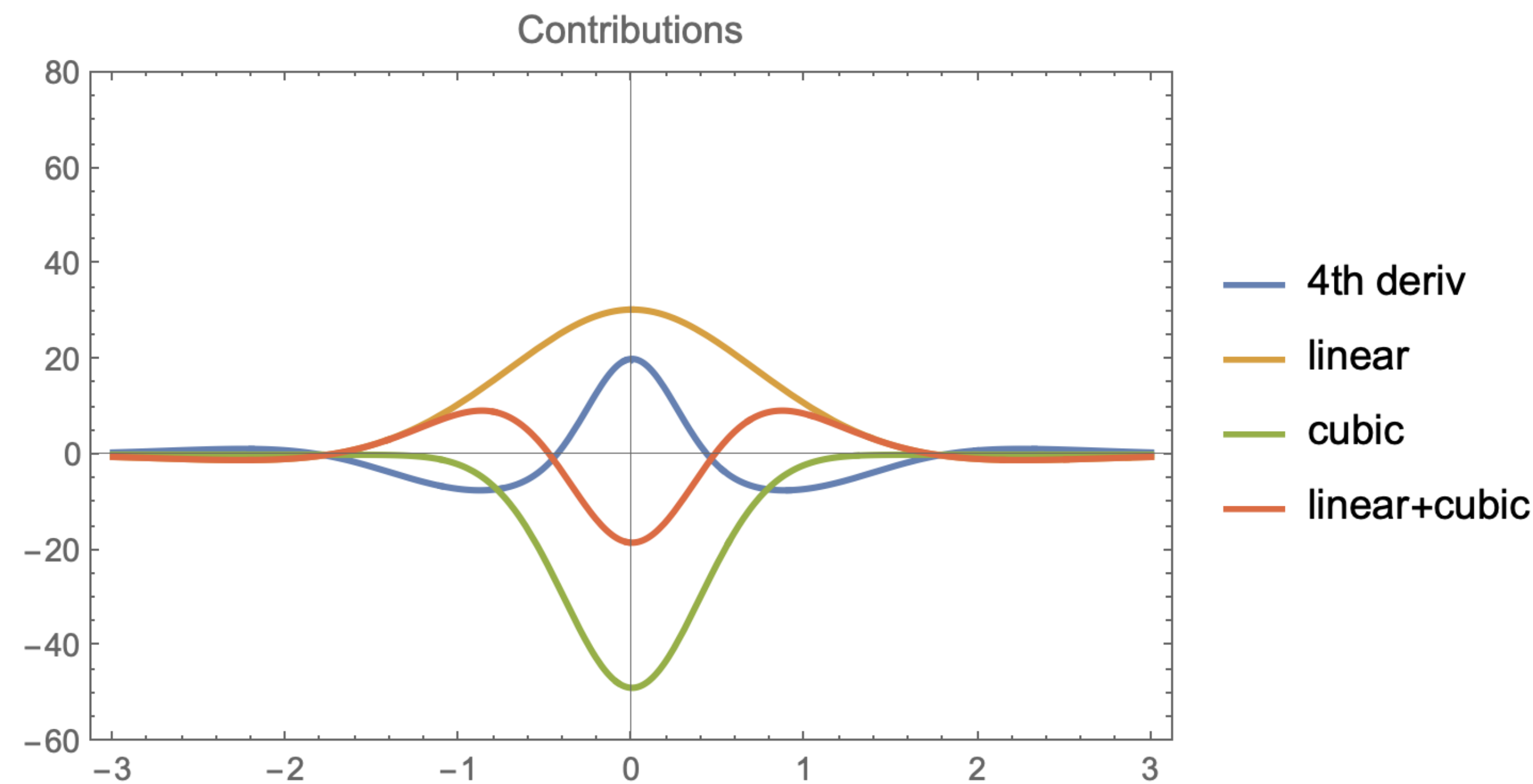
# Combination

The required fourth derivative looks qualitatively similar to the fourth derivative of a Gaussian; what if we used a function that behaved like  $u_0$  in the tails but Gaussian near the peak?

$$v(x) = \frac{u^{(0)}(x) + 0.81e^{-1.874x^2}}{1 + 0.81e^{-x^2}}$$

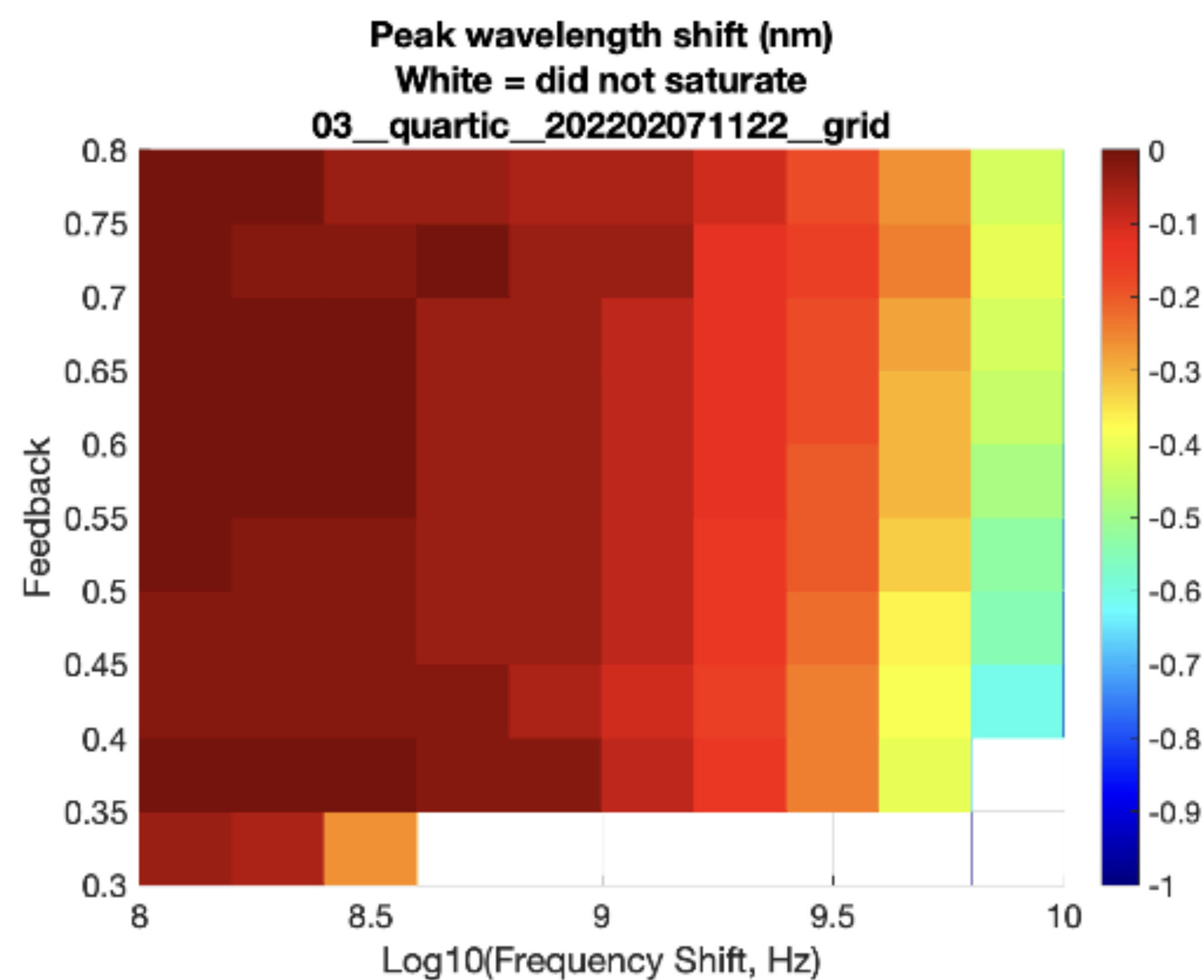
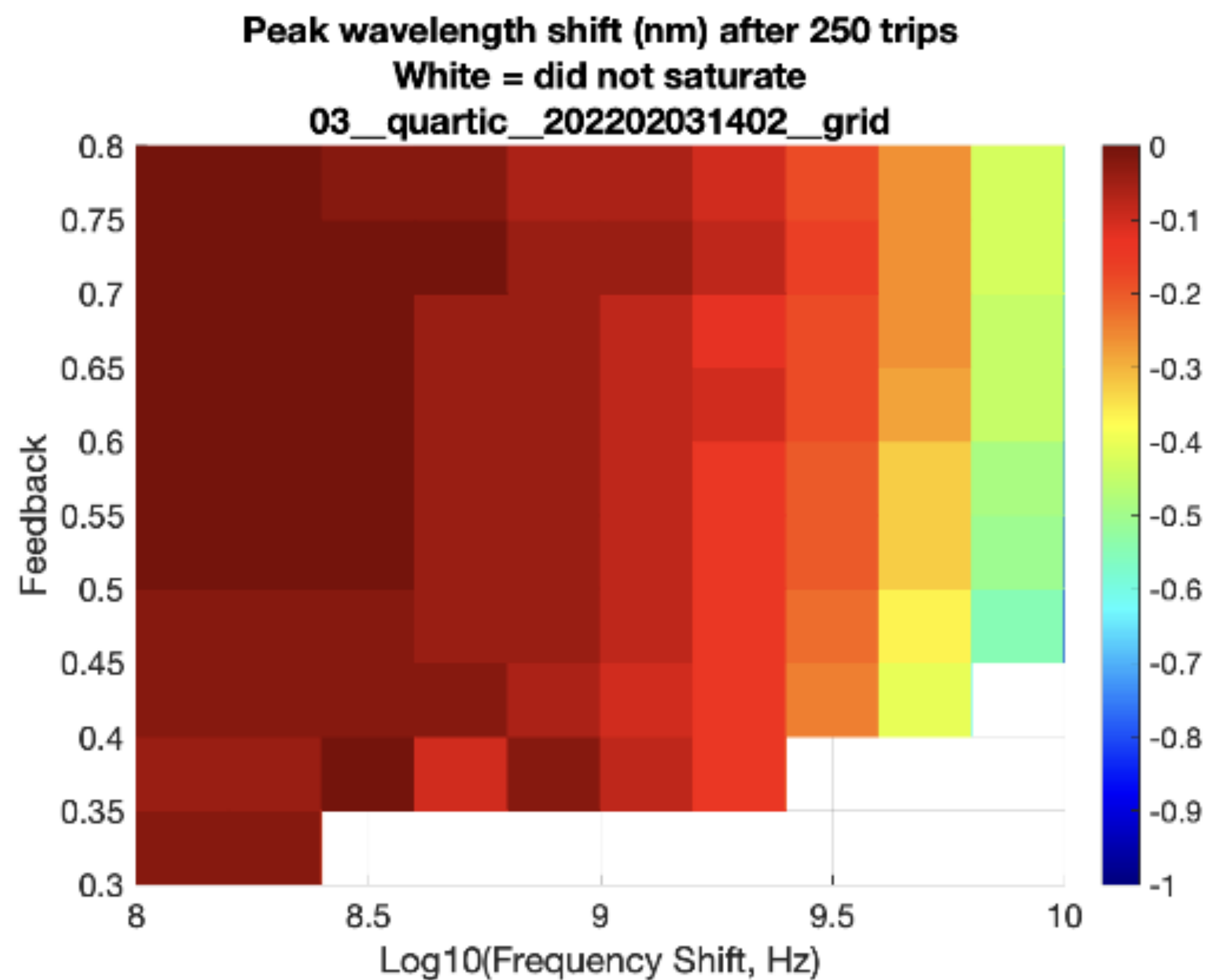


# Combination



# Wavelength shifts

New



# Wavelength shifts

New

