

# Quintics Chosen for CY Project

August 11, 2020

The following  $f$ 's were chosen to represent various quintics for our study.

$$f_0 = z_0^5 + z_1^5 + z_2^5 + z_3^5 + z_4^5 + \psi z_0 z_1 z_2 z_3 z_4$$

$$f_1 = z_0^5 + z_1^5 + z_2^5 + z_3^5 + z_4^5 + \psi z_0 z_1 z_2 z_3 z_4 + z_3 z_4^4 + z_3^2 z_4^3 + z_3^3 z_4^2 + z_3^4 z_4$$

$$f_2 = z_3 g(z) + z_4 h(z)$$

$$g = z_0^4 + z_1^4 + z_2^4 + z_3^4 + a z_0 z_1 z_2 z_3$$

$$h = z_0^4 + z_1^4 + z_2^4 + z_4^4 + b z_0 z_1 z_2 z_4$$