

$$\begin{aligned}
B_g(k_1, k_2, k_3) = & b_1^3 B_m(k_1, k_2, k_3) \\
& + b_1^2 b_2 [P_m(k_1) P_m(k_2) + (2 \text{ cyclic})] \\
& + b_1^3 (\text{primordial Bispectrum})
\end{aligned}$$