

$$\begin{aligned}
\Delta[k_] &:= \left((t - 1) \left(2 (\alpha \beta + \delta \mu)^2 - \alpha^2 \beta^2 \right) - 4 e_k l_k f_k \delta^2 \mu^2 - \right. \\
&\delta (1 + \mu) \left(f_k^2 \alpha^2 + e_k^2 \beta^2 \right) - e_k^2 f_k^2 \delta^3 (1 + 3 \mu) - \\
&2 \left(\alpha \beta + 2 \delta \mu + e_k f_k \delta^2 (1 + 2 \mu) + 2 l_k \delta \mu^2 \right) \left(f_k \alpha + e_k \beta \right) - \\
&4 \left(l_k \mu^2 + e_k f_k \delta (1 + \mu) \right) \left. \left(\alpha \beta + \delta \mu \right) \right) (1 + t) / 4;
\end{aligned}$$