$$
\begin{aligned}
iS_F^{2nd}(p) &= \frac{i}{\not p - m + e_0^2(\not p - m)B(\Lambda) + e_0^2(\not p - m)\Sigma_c(\not p - m) + i\varepsilon} + \begin{pmatrix}\text{higher}\\ \text{order}\end{pmatrix} \\
&= \frac{i\left(1 + e_0^2 B(\Lambda) + e_0^2\Sigma_c(\not p - m)\right)^{-1}}{(\not p - m) + i\varepsilon\left(1 + e_0^2 B(\Lambda) + e_0^2\Sigma_c(\not p - m)\right)^{-1}} + \begin{pmatrix}\text{higher}\\ \text{order}\end{pmatrix} \\
&= \frac{i\left(1 - e_0^2 B(\Lambda) - e_0^2\Sigma_c(\not p - m)\right)}{(\not p - m) + i\varepsilon\left(1 - e_0^2 B(\Lambda) - e_0^2\Sigma_c(\not p - m)\right)} + \begin{pmatrix}\text{different}\\ \text{higher order}\end{pmatrix} \\
&= \underbrace{\frac{i}{\not p - m + i\varepsilon}}_{iS_F(p)}\left(1 - e_0^2 B(\Lambda) - e_0^2\Sigma_c(\not p - m)\right) + \begin{pmatrix}\text{yet different}\\ \text{higher order}\end{pmatrix}.
\end{aligned}
$$

(13-55)

*$2^{nd}$ order fermion propagator in terms of our symbols*