Example Code:

```
ClearAll["Global'*"]
k0 = 1; Sigmak = k0 / 10; Deltak = Sigmak / 10; c = 1; d = -0.1; m0 = 30;
Fig1 = Plot[Sum[Exp[- (m*Deltak)^2 / (2 Sigmak^2)] Cos[(k0 + m*Deltak)*x - (c*(k0 + m*Deltak) + d*(k0 + m*Deltak)^3)*0], {m, -m0, m0, 1}], {x, -50, 350},
    PlotRange → All, PlotStyle → Green];
Fig2 = Plot[Sum[Exp[- (m*Deltak)^2 / (2 Sigmak^2)] Cos[(k0 + m*Deltak)*x - (c*(k0 + m*Deltak) + d*(k0 + m*Deltak)^3)*100], {m, -m0, m0, 1}], {x, -50, 350},
    PlotRange → All, PlotStyle → Blue];
Fig3 = Plot[Sum[Exp[- (m*Deltak)^2 / (2 Sigmak^2)] Cos[(k0 + m*Deltak)*x - (c*(k0 + m*Deltak) + d*(k0 + m*Deltak)^3)*200], {m, -m0, m0, 1}], {x, -50, 350},
    PlotRange → All, PlotStyle → Red];
Fig4 = Plot[Sum[Exp[- (m*Deltak)^2 / (2 Sigmak^2)] Cos[(k0 + m*Deltak)*x - (c*(k0 + m*Deltak) + d*(k0 + m*Deltak)^3)*300], {m, -m0, m0, 1}], {x, -50, 350},
    PlotRange → All, PlotStyle → Orange, AxesLabel → {"x", "Psi"}];
Show[Fig1, Fig2, Fig3, Fig4]
```