

## 2.5 CONCLUSIONS

Most of the graphs demonstrate changes to the magnetic wiggler field caused by changing various parameters in equation (2.27). The helical magnetic wiggler field with circular cross section, is shown in figure 2.2, and may be used as a reference for comparing the wiggler fields in other figures which have elliptic cross sections.

The figures show that the largest change to the magnitude of the magnetic wigglers can be obtained by increasing  $\frac{\omega_p}{\omega_o}$ . Increasing  $\frac{k_w}{k_o}$  introduces a "modulation" of the magnetic wiggler field.