

# FYS3410 - Module IV

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## 7.

A truncated taylor series for the energy as a function of wavevector can be stated as

$$E(k) = E(K_0) + \frac{dE}{dk}(k - k_0) + \frac{1}{2} \frac{d^2E}{dk^2} (k - k_0)^2 + \dots$$