

$$\alpha := 1 \qquad \beta := 0.1 \qquad f(q,e) := \exp\Big(-\alpha \cdot \big|\beta \cdot q^2 - e\big|\Big)$$

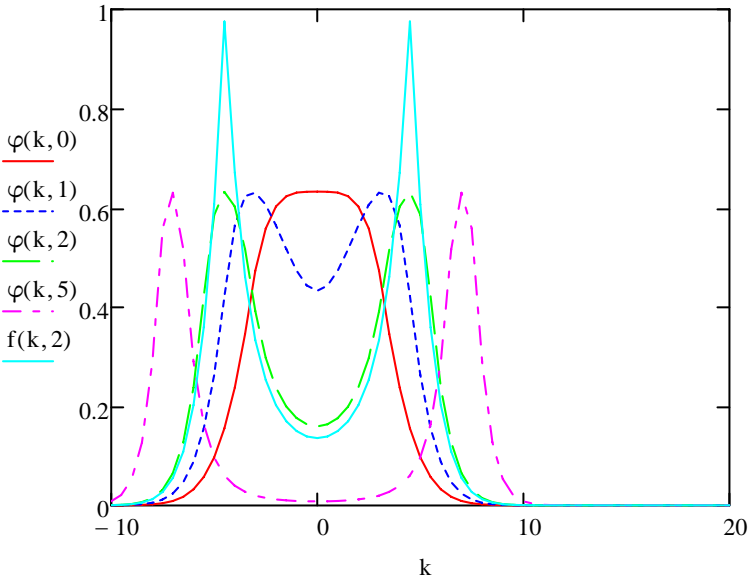
$$\Delta := 1$$

$$f(1,1) = 0.407$$

$$\varphi(q,e0) := \frac{1}{2 \cdot \Delta} \cdot \int_{e0-\Delta}^{e0+\Delta} f(q,e) \, de$$

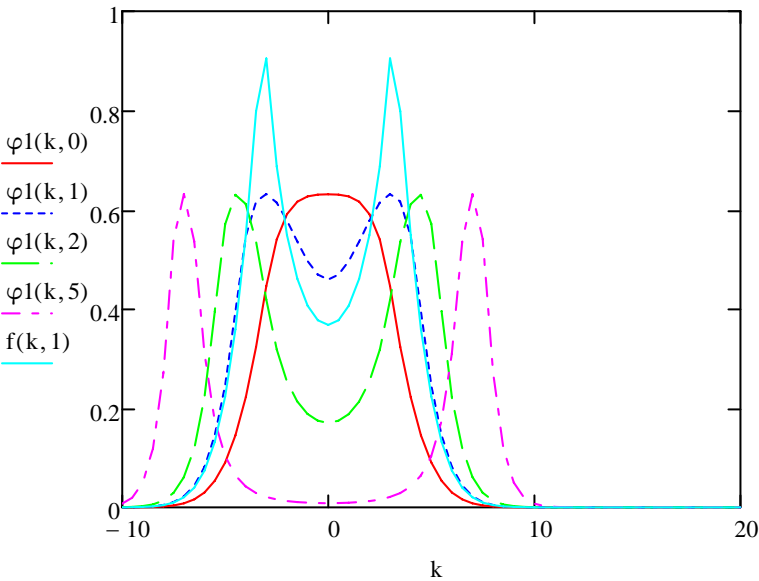
$$\varphi(1,0) = 0.63$$

$$k := -10,-9.5..20$$



$$f1(q_x,q_y,q_z,e) := \exp[-\alpha \cdot \left| \beta \cdot (q_x \cdot q_x + q_y \cdot q_y + q_z \cdot q_z) - e \right|]$$

$$\varphi1(q_x,e0) := \frac{1}{8 \cdot \Delta^3} \cdot \int_{e0-\Delta}^{e0+\Delta} \int_{-\Delta}^{\Delta} \int_{-\Delta}^{\Delta} f1(q_x,q_y,q_z,e) \, dq_y \, dq_z \, de$$

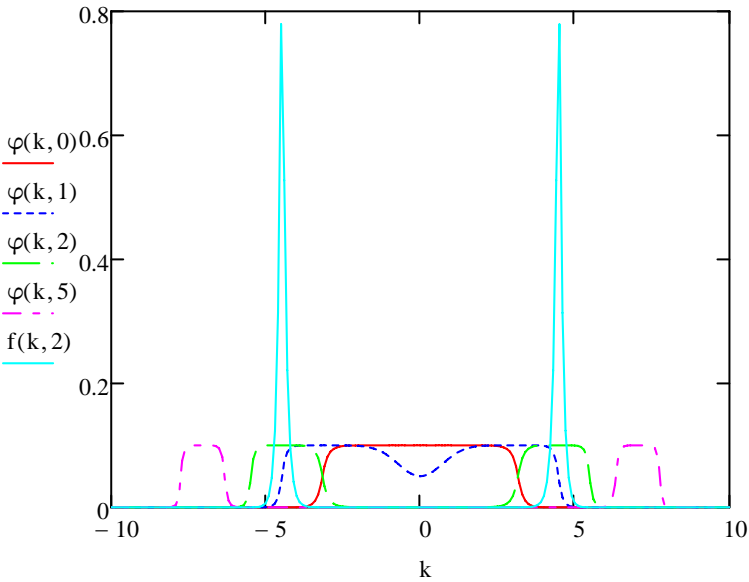


$$\alpha := 10 \qquad \beta := 0.1 \qquad f(q,e) := \exp\bigl(-\alpha \cdot \bigl|\beta \cdot q^2 - e\bigr|\bigr)$$

$$f(1,1) = 1.234 \times 10^{-4} \qquad \Delta := 1$$

$$\varphi(q,e0) := \frac{1}{2 \cdot \Delta} \cdot \int_{e0-\Delta}^{e0+\Delta} f(q,e) \, de$$

$$\varphi(1,0) = 0.1 \qquad k := -10, -9.9..10$$



$$f1(q_x,q_y,q_z,e) := \exp\Big[-\alpha\cdot \Big|\beta\cdot (q_x\cdot q_x + q_y\cdot q_y + q_z\cdot q_z) - e\Big]\Big]$$

$$\varphi1(q_x,e0) := \frac{1}{8\cdot \Delta^3}\cdot \int_{e0-\Delta}^{e0+\Delta} \int_{-\Delta}^{\Delta} \int_{-\Delta}^{\Delta} f1(q_x,q_y,q_z,e) \, dq_y \, dq_z \, de$$

