

$$\text{In[]:= } \left(\int_0^{2\pi} \int_0^\pi e^{i r Q \cos(\theta)} \sin(\theta) r^2 d\theta d\phi \right) / \int_0^{2\pi} \int_0^\pi \sin(\theta) r^2 d\theta d\phi$$

$$\text{Out[]:= } \frac{\sin(Q r)}{Q r}$$

which is multiplied by the form factor

$$\text{In[]:= } \text{expansion} = \text{Series}\left[\frac{\sin(x)}{x}, \{x, 0, 10\}\right]$$

$$\begin{aligned} \text{Out[]:= } & 1 - \frac{x^2}{6} + \left(\frac{1}{120} + \frac{1}{72} (-1 +) \right) x^4 + \left(-\frac{1}{5040} - \frac{1}{720} (-1 +) - \frac{(-2 +) (-1 +)}{1296} \right) x^6 + \\ & \left(\frac{1}{362880} + \frac{41 (-1 +)}{604800} + \frac{(-2 +) (-1 +)}{8640} + \frac{(-3 +) (-2 +) (-1 +)}{31104} \right) x^8 + \\ & \left(-\frac{23 (-1 +)}{39916800} - \frac{31 (-2 +) (-1 +)}{10886400} - \frac{3628800}{3628800} - \right. \\ & \left. \frac{(-3 +) (-2 +) (-1 +)}{155520} - \frac{(-4 +) (-3 +) (-2 +) (-1 +)}{933120} \right) x^{10} + O[x]^{11} \end{aligned}$$

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