

$$\text{eq1} = \left(\int_0^{2\pi} \int_0^{\pi} \mathbf{E}^{1+r Q \cos(\theta)} \sin(\theta) r^2 d\theta d\phi \right) / \int_0^{2\pi} \int_0^{\pi} \sin(\theta) r^2 d\theta d\phi$$

$$\text{out1} = \frac{\sin(Q r)}{Q r}$$

which is multiplied by the form factor

$$\text{eq2} = \text{expansion} = \text{Series}\left[\frac{\sin(x)}{x}, \{x, 0, 10\}\right]$$

$$\text{out2} = 1 - \frac{x^2}{6} + \left(\frac{1}{120} + \frac{1}{72} (-1 +) \right) x^4 + \left(-\frac{1}{5040} - \frac{1}{720} (-1 +) - \frac{(-2 +) (-1 +)}{1296} \right) x^6 +$$

$$\left(\frac{41 (-1 +)}{362880} + \frac{(-2 +) (-1 +)}{604800} + \frac{(-3 +) (-2 +) (-1 +)}{8640} \right) x^8 +$$

$$\left(-\frac{23 (-1 +)}{39916800} - \frac{31 (-2 +) (-1 +)}{19886400} - \frac{(-3 +) (-2 +) (-1 +)}{3628800} \right. +$$

$$\left. \frac{(-3 +) (-2 +) (-1 +)}{155520} - \frac{(-4 +) (-3 +) (-2 +) (-1 +)}{933120} \right) x^{10} + O(x)^{11}$$

truncate higher-order terms

coefficient list

nth coefficient...

inverse series

Pade approximation



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