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Engineering Formula Sheet

This last result is a special case of the more general formula, $N \sum_{j=0}^N j(j+1)(j+2) \dots (j+r) = N(N+1)(N+2) \dots (N+r)(N+r+1) r + 2$. Plane wave expansion $\exp(ikz) = \exp(ikr \cos \theta) = \sum_{l=0}^{\infty} (2l+1) i^l j_l(kr) P_l(\cos \theta)$, where $P_l(\cos \theta)$ are Legendre polynomials (see

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section 11) and $j_l(kr)$ are spherical Bessel functions, dened by $j_l(\hat{r}) = r^{-l} \hat{r}^{l+1} = 2$

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