$$| \mathbf{r} | \mathbf{r}$$

 $\overline{\ }$ R := evalc(R)

(9)

$$R := \frac{\text{BesselJ}(0, \xi_0)^2 + \text{BesselY}(0, \xi_0)^2 + \text{BesselJ}(1, \xi_0)^2 + \text{BesselY}(1, \xi_0)^2 - \frac{4}{\pi \xi_0}}{\text{BesselJ}(0, \xi_0)^2 + \text{BesselY}(0, \xi_0)^2 + \text{BesselJ}(1, \xi_0)^2 + \text{BesselY}(1, \xi_0)^2 + \frac{4}{\pi \xi_0}}$$

$$\Rightarrow series(R, \xi_0, 2)$$

$$1 - 2\pi \xi_0 + O(\xi_0^2)$$
(10)