

C4282

! For an efficient use of these tables, first read `HowTo.pdf`.

C4282

T2.71B. Integrands involving exponentials, logarithm functions and powers of $(a + b x)$ on the interval $(0, 2y)$.

$$1. \int_0^{2y} e^{-\mu x^2} \ln \frac{x^2(4y^2 - x^2)}{y^4} \frac{dx}{\sqrt{4y^2 - x^2}} = \frac{\pi}{2} e^{-2y^2 \mu} \left[\frac{\pi}{2} Y_0(2i y^2 \mu) - (\gamma_e - \ln 2) J_0(2i y^2 \mu) \right],$$

$$\Re\{\mu\} > 0.$$

C4282

C4282

C4282

C4282

C4282

C4282