

C4282

! For an efficient use of these tables, first read [HowTo.pdf](#).

C4282

T2.56E. Integrands involving product of exponentials, trigonometric functions and powers of trigonometric functions on the interval $(-\pi, \pi)$.

$$1. \int_{-\pi}^{\pi} \left[\beta + \sqrt{\beta^2 - 1} \cos x \right]^{\nu} e^{i n x} dx = \frac{2\pi \Gamma(\nu + 1) P_{\nu}^{(m)}(\beta)}{\Gamma(\nu + m + 1)}, \quad \Re\{\beta\} > 0.$$

C4282

C4282

C4282

C4282

C4282

C4282

C4282