

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

T2.61A. Integrands involving trigonometric and hyperbolic functions and powers of $(a + bx)$ on the interval $(0, 1)$.

$$1. \int_0^1 \frac{\cos px \cosh(q \sqrt{1-x^2})}{\sqrt{1-x^2}} dx = \frac{\pi}{2} J_0(\sqrt{p^2 - q^2}).$$

$$2. \int_0^1 \cos ax \cosh \sqrt{b(u^2 - x^2)} \frac{dx}{\sqrt{u^2 - x^2}} = \frac{\pi}{2} J_0\left(\frac{u}{\sqrt{a^2 - b^2}}\right).$$
