

C4282

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

C4282

T2.38A. Integrands involving hyperbolic functions on the interval $(0, a)$.

$$1. \int_0^a \frac{\cosh\left(\gamma + \frac{1}{2}\right) x \, dx}{(\cosh a - \cosh x)^{\nu+1/2}} = \sqrt{\frac{\pi}{2}} \frac{\Gamma\left(\frac{1}{2} - \nu\right)}{\sinh^{\nu} a} P_{\gamma}^{(\nu)}(\cosh a), \quad \Re\{\nu\} < \frac{1}{2}, \quad a > 0.$$

C4282

C4282

C4282

C4282

C4282

C4282

C4282