

**FORMULA 3.333.2**

$$\int_{-\infty}^{\infty} \frac{e^{-sx} dx}{\exp(e^{-x}) + 1} = \begin{cases} (1 - 2^{1-s})\Gamma(s)\zeta(s) & \text{if } s \neq 1 \\ \ln 2 & \text{if } s = 1 \end{cases}$$