

$$\text{In}[1]:= \int_0^\infty \frac{a \, \mathbf{A}^2}{\mathbf{e}^{b \, \mathbf{A}} - 1} \, \mathrm{d}\mathbf{A}$$

$$\text{Out}[1]= \text{ConditionalExpression}\left[\frac{2 \, a \, \zeta(3)}{b^3}, \text{Re}(b) > 0\right]$$