

Calcoliamo

$$\int \frac{1}{x(\cos \log x)^2 \tan \log x} dx.$$

Poniamo  $\log x = t$  da cui  $dx = e^t dt$ . Si ha allora

$$\begin{aligned} \int \frac{1}{x(\cos \log x)^2 \tan \log x} dx &= \int \frac{1}{e^t \cos^2 t \tan t} e^t dt \\ &= \int \frac{1}{\cos^2 t \tan t} dt \\ &= \int \frac{(\tan t)'}{\tan t} dt \\ &= \log(\tan t) + C \\ &= \log(\tan \log x) + C. \end{aligned}$$