

$$\begin{aligned}
\epsilon &= \frac{\cot\phi}{\cos\phi} + \frac{\tan(\phi-\alpha)}{\sin(\phi-\alpha)} \\
&= \frac{\cos\phi}{\sin\phi} + \frac{\cos(\phi-\alpha)}{\sin(\phi-\alpha)} \\
&= \frac{\cos\phi \cdot (\cos\phi \cdot \cos\alpha + \sin\phi \cdot \sin\alpha) + \sin\phi \cdot (\sin\phi \cdot \cos\alpha - \cos\phi \cdot \sin\alpha)}{\sin\phi \cdot \cos(\phi-\alpha)} \\
&= \frac{\cos^2\phi \cdot \cos\alpha + \sin\phi \cdot \cos\phi \cdot \sin\alpha + \sin^2\phi \cdot \cos\alpha - \sin\phi \cdot \cos\phi \cdot \sin\alpha}{\sin\phi \cdot \cos(\phi-\alpha)} \\
&= \frac{\cos\alpha \cdot (\cos^2\phi + \sin^2\phi)}{\sin\phi \cdot \cos(\phi-\alpha)} = \frac{\cos\alpha}{\sin\phi \cdot \cos(\phi-\alpha)}
\end{aligned}$$