

$$\begin{aligned}\alpha' \text{ μέλος} &= \varepsilon\varphi(\pi + \omega) + \varepsilon\varphi\left(\frac{\pi}{2} - \omega\right) = \varepsilon\varphi\omega + \sigma\varphi\omega = \\ &= \frac{\eta\mu\omega}{\sigma\upsilon\nu\omega} + \frac{\sigma\upsilon\nu\omega}{\eta\mu\omega} = \frac{\eta\mu^2\omega + \sigma\upsilon\nu^2\omega}{\eta\mu\omega \cdot \sigma\upsilon\nu\omega} = \\ &= \frac{1}{\eta\mu\omega \cdot \sigma\upsilon\nu\omega}\end{aligned}$$

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$$\begin{aligned}\beta' \text{ μέλος} &= \sqrt{\frac{1}{\eta\mu^2(\pi - \omega)} + \frac{1}{\sigma\upsilon\nu^2(-\omega)}} = \sqrt{\frac{1}{\eta\mu^2\omega} + \frac{1}{\sigma\upsilon\nu^2\omega}} = \\ &= \sqrt{\frac{\sigma\upsilon\nu^2\omega + \eta\mu^2\omega}{\eta\mu^2\omega \cdot \sigma\upsilon\nu^2\omega}} = \frac{1}{\sqrt{\eta\mu^2\omega \cdot \sigma\upsilon\nu^2\omega}} = \frac{1}{|\eta\mu\omega| \cdot |\sigma\upsilon\nu\omega|} \stackrel{\eta\mu\omega > 0, \sigma\upsilon\nu\omega > 0}{=} \\ &= \frac{1}{\eta\mu\omega \cdot \sigma\upsilon\nu\omega}\end{aligned}$$

$$\text{Άρα } \alpha' \text{ μέλος} = \beta' \text{ μέλος} = \frac{1}{\eta\mu\omega \cdot \sigma\upsilon\nu\omega}$$