$$itl(\psi_{\max}(itu, v)) \geq itl(\psi^{2}_{\max}(itu, v)) \geq \cdots \geq itl(\psi^{itk-1}_{\max}(itu, v))$$
$$\geq itl(\psi_{\min}(itu, w)) + (\delta_{\min}(iti^{-}) - \delta_{\max}(itg)) \geq itl(\psi^{itk}_{\max}(itu, v)) \quad .$$