



$$\mathbf{f}_I = \frac{\sin \Delta\theta}{\Delta\theta} \left( \frac{1 - \sin^2 \left( \frac{\Delta\theta}{2} \right) \cos^2 \left( \frac{\Delta\theta}{2} \right)}{1 + \sin^2 \left( \frac{\Delta\theta}{2} \right)} \cos \left( \frac{\Delta\theta}{2} \right) + \cos \left( \frac{3}{2} \Delta\theta \right) \right)^2, \mathbf{f}_{II} = -\frac{\sin \Delta\theta}{\Delta\theta} \left( \frac{1 - \sin^2 \left( \frac{\Delta\theta}{2} \right) \cos^2 \left( \frac{\Delta\theta}{2} \right)}{1 + \sin^2 \left( \frac{\Delta\theta}{2} \right)} \sin \left( \frac{\Delta\theta}{2} \right) + \sin \left( \frac{3}{2} \Delta\theta \right) \right)^2$$