

$F_1$  and  $F_2$  are parameters to characterize the slope of the field at the edges defined as:

$$F_1 = \text{sgn}(a) \sqrt{a}, \quad a \equiv 24 \left( \frac{I_0^2}{2} - I_1 \right), \quad (155)$$

$$F_2 = I_2 - \frac{I_0^3}{3} \quad (156)$$

$$\text{with } I_n \equiv \int_{-\infty}^{\infty} (s - s_0)^n \frac{K_1(s)}{K_{10}} ds, \quad (157)$$

where  $s_0$  is the location of the edge where the effective length is defined, and  $K_{10} = K_1/L$ .