$$F(R_{in}, X) = (const, R_{in} + const_{2})e^{-\frac{X}{2}} = A e^{-\frac{R_{in}}{L_{s}}}$$

$$const_{s} = \frac{R_{in}}{R_{in}}$$

for
$$R \leq R_{in}$$

$$F(R,Z) = \left(\frac{A_{in}}{R_{in}} - R_{in}\right) = \frac{Z}{Z_{in}}$$

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$$for k < km$$

$$f(k, z) = \left(\frac{A_{o} e^{-\frac{kim}{k_{s}}} - xord_{2}}{kim} \cdot k + cord_{2}\right) e^{-\frac{x}{x_{s}}}$$

$$f(k, z) = \begin{cases} A_{o} e^{-\frac{kim}{k_{s}}} - xord_{2} & (1 - \frac{k}{kim}) = \frac{x}{x_{s}} \end{cases}$$

$$f(k, z) = \begin{cases} A_{o} \frac{k}{k_{s}} - \frac{x}{k_{s}} - \frac{x}{k_{s}} \\ A_{o} e^{-\frac{k}{k_{s}}} - \frac{x}{k_{s}} \end{cases}$$

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$$\frac{\pi(x,x)}{\pm(x,x)} = \left[\frac{\pi}{A_0} \frac{\pi}{\kappa_{in}} e^{-\frac{\pi i n}{A_0}} + \chi A_0 e^{-\frac{\pi i n}{A_0}} (1 - \frac{\pi}{\kappa_{in}}) \right] e^{-\frac{\pi}{2}s}$$

$$\pm(\pi,x) = A_0 \left[\frac{\pi}{\kappa_{in}} (1-\chi) + \chi \right] e^{-\frac{\pi i n}{A_0}} e^{-\frac{\chi}{2}s}$$

$$F(h, \pm) = \begin{cases} A_o \int \frac{h}{h_{im}} (1-\lambda) + \lambda \int e^{-\frac{h}{\lambda}s} e^{-\frac{\lambda}{\lambda}s} \\ -\frac{h}{\lambda}s - \frac{\lambda}{\lambda}s \\ A_o e e \end{cases}$$

$$hold him (1-\lambda) + \lambda \int e^{-\frac{h}{\lambda}s} e^{-\frac{\lambda}{\lambda}s} ds$$

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$$I = 4\pi \int_{0}^{K_{in}} \int_{0}^{K_{o}} (\cot t, \kappa + \cot t_{2}) e^{-\frac{X_{o}}{X_{o}}} \times d\kappa dx + \frac{X_{o}}{2} \int_{0}^{K_{in}} \int_{0}^{K_{o}} (\cot t, \kappa + \cot t_{2}) e^{-\frac{X_{o}}{X_{o}}} \times d\kappa dx = I_{i} + I_{2}$$

$$I_{i} = \left(\frac{M_{i}}{3} \cot t_{i}, \frac{X_{i}}{K_{in}} + 2\pi \cot t_{i}, \frac{X_{i}}{K_{in}}\right) \times_{S} (1 - e^{-\frac{X_{o}}{X_{o}}})$$

$$I_{i} = \left(\frac{M_{i}}{3} - \frac{K_{in}}{K_{o}} + \frac{K_{in}}{K_{o}} + 2\pi \cot t_{i}, \frac{X_{i}}{K_{in}}\right) \times_{S} (1 - e^{-\frac{X_{o}}{X_{o}}})$$

$$I_{i} = \left(\frac{M_{i}}{3} - \frac{K_{o}}{K_{o}} + \frac{K_{in}}{K_{o}} + 2\pi \cot t_{i}, \frac{X_{i}}{K_{in}}\right) \times_{S} (1 - e^{-\frac{X_{o}}{X_{o}}})$$

$$I_{i} = \left(\frac{M_{i}}{3} - \frac{K_{o}}{K_{o}} + \frac{K_{in}}{3} - \frac{K_{in}}{K_{o}}\right) \times_{S} (1 - e^{-\frac{X_{o}}{X_{o}}})$$

$$I_{i} = \left(\frac{M_{i}}{3} - \frac{K_{o}}{K_{o}} + \frac{M_{i}}{3} - \frac{K_{in}}{K_{o}} + \frac{M_{i}}{3} - \frac{K_{in}}{K_{o}}\right) \times_{S} (1 - e^{-\frac{X_{o}}{X_{o}}})$$

$$I_{i} = \frac{M_{i}}{3} - \frac{K_{o}}{K_{o}} + \frac{M_{i}}{3} - \frac{K_{o}}{K_{o}} + \frac{K_{o}}{K_{o}} + \frac{K_{o}}{K_{o}} - \frac{K_{o}}{K_{o}}$$

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