

$$\epsilon = \frac{\frac{d\sigma^{\uparrow\uparrow}}{d\Omega} - \frac{d\sigma^{\uparrow\downarrow}}{d\Omega}}{\frac{d\sigma^{\uparrow\uparrow}}{d\Omega} + \frac{d\sigma^{\uparrow\downarrow}}{d\Omega}}$$

$$\epsilon = A_{zz}(\Theta) \cdot P_b^{\parallel} \cdot P_t^{\parallel}$$

$$A_Q = \frac{Q^+ - Q^-}{Q^+ + Q^-}$$

$$\chi^2/\nu$$

$$A_Q = \frac{(m-m_o)-r(p-p_o)}{(m-m_o)+r(p-p_o)}$$

$$B_r = N_{B_r} \cdot B_{r,1}(z) \cdot B_r(r) \text{ if } z < 131$$

$$N_{B_r} \cdot B_{r,2}(z) \cdot B_r(r) \text{ if } 131 \leq z < 401$$

$$N_{B_r} \cdot B_{r,3}(z) \cdot B_r(r) \text{ if } 401 \leq z \leq 1500$$

$$B_z(z) = \frac{z+D/2+L}{\sqrt{(z+D/2+L)^2+R^2}} - \frac{z+D/2}{\sqrt{(z+D/2)^2+R^2}} + \frac{z-D/2}{\sqrt{(z-D/2)^2+R^2}} - \frac{z-D/2-L}{\sqrt{(z-D/2-L)^2+R^2}}$$

$$N_{B_z} = 0.25004 - 0.16566 \times 10^{-4} \cdot r + 0.13213 \times 10^{-4} \cdot r^2$$

$$B_z(r) = 3.9997 + 0.20130 \times 10^{-3} \cdot r - 0.15022 \times 10^{-3} \cdot r^2$$

$$B_z(z) = 11.186 \cdot \frac{z + 72.776}{\sqrt{(z + 72.776)^2 + 7983.4225}} - \frac{z - 45.327}{\sqrt{(z - 45.327)^2 + 7983.4225}} \\ + \frac{z - 45.327}{\sqrt{(z - 45.327)^2 + 7983.4225}} - \frac{z - 72.776}{\sqrt{(z - 72.776)^2 + 7983.4225}}$$

$$N_{B_r} = -2852.3 - 1120.4 \cdot r + 518.37 \cdot r^2 - 132.98 \cdot r^3 + 21.024 \cdot r^4 - 2.1135 \cdot r^5 + 0.13538 \cdot r^6 \\ - 0.53511 \times 10^{-2} \cdot r^7 + 0.11896 \times 10^{-3} \cdot r^8 - 0.11379 \times 10^{-5} \cdot r^9$$

$$B_{r,1}(z) = -0.32449 \times 10^{-3} - 0.11076 \times 10^{-3} \cdot z - 0.15264 \times 10^{-4} \cdot z^2 + 0.72659 \times 10^{-6} \cdot z^3 \\ - 0.93749 \times 10^{-8} \cdot z^4 + 0.47863 \times 10^{-10} \cdot z^5 - 0.84504 \times 10^{-13} \cdot z^6$$

$$B_{r,2}(z) = 0.85453 \times 10^{-1} - 0.95283 \times 10^{-3} \cdot z + 0.41173 \times 10^{-5} \cdot z^2 - 0.80541 \times 10^{-8} \cdot z^3 \\ + 0.59661 \times 10^{-11} \cdot z^4$$

$$B_{r,3}(z) = 0.97973 \times 10^{-3} - 0.21639 \times 10^{-5} \cdot z + 0.12893 \times 10^{-8} \cdot z^2$$

$$B_r(r) = -0.41069 \times 10^{-4} - 0.23544 \times 10^{-3} \cdot r - 0.33537 \times 10^{-5} \cdot r^2$$