

## 2 Analysis of systematic errors

### 2.1 E+B element tilt

The E+B element tilt about the vertical axis is simulated as described in [?], by adding spin rotations about the radial axis associated with the parasitic  $B_x$ -, and  $E_y$ -fields. The former is supposed a result of the tilt proper, while the latter is due to Lorentz force compensation, i.e.,

$$B_x = B \tan \theta, \quad (1)$$

$$E_y = \frac{\chi_E}{\chi_m} B_x \quad (2)$$

## References

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