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ERRATUM

# Erratum to: The Electron Drift Instrument for MMS

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Section 3.3, Eq. (4): "$B$" should be in the denominator. Please find in this erratum the correct version of Eq. (4) in Sect. 3.3 that should be regarded by the reader as the final version.

### 3.3 Measurement of $B$

The gyro period can be obtained from the mean of two the travel times, one "toward" and one "away" from the target, as described above:

$$T_g = \frac{t_1 + t_2}{2} \tag{3}$$

From $T_g$ the magnetic field strength, $B$, is obtained via

$$T_g = \frac{2\pi m\gamma}{eB} \tag{4}$$

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Values of $T_g$ range from about 0.1 to 5 ms (see Table 2). The method is sensitive enough to require the relativistic $\gamma$ correction even for a 500 eV electron. When times of flight are measured, the magnetic field strength is determined with very high accuracy, e.g., to within 0.1 % for a 30 nT field. This feature is used for an accurate in-flight determination of the fluxgate magnetometer offsets.