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Determine The Electric field Due To The Ion, In Frame S (and Then  $F = ma$  and  $F = Eq$  Give The Acceleration Trivially). In  $S'$ , The fields Are Simple:  $E' = Ze \frac{4\pi q}{0r^3} R'$ ;  $B' = 0$  (5) Similarly The 4-potential Feb 8th, 2024.

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$$DL(\theta, \varphi)/dr = -C(z) L(z, \theta, \varphi) + \int 4\pi \beta(z, \theta, \varphi; \theta', \varphi') L(\theta', \varphi') D\Omega'$$
 We Measure As A Function Of Depth Rather Than Pathlength  

$$Z R \theta R = Z / \cos\theta$$

$$\cos\theta dL(\theta, \varphi)/dz = -C(z) L(z, \theta, \varphi) + \int 4\pi \beta(z, \theta, \varphi; \theta', \varphi')$$

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