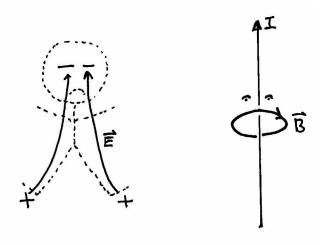
The Love Song of the Electric Field

Lyrics by Walter Smith, 11-01 (Chords by Marian McKenzie)
To the tune of "Loch Lomond"



Before they meet:

Gauss's Law:

Original Ampère's Law:

$$\oint \vec{E} \cdot \hat{n} \, dA = \frac{Q}{\mathbf{e}_{\alpha}}$$

$$\oint \vec{B} \cdot d\vec{\ell} = \mathbf{m}_{b} I$$

"Electric field lines start on positive charges, and end on negative charges." "Magnetic fields are created by currents."

No monopoles law: $\oint \vec{B} \cdot \hat{n} \, dA = 0$

"Magnetic field lines form closed loops."

| C F C | F | G 7 | |
|---|----|------------|------------|
| Oh, you be the B field, and I'll be the E field, | | | |
| C F | C | F C | 3 7 |
| Let's dance through the cosmos, my lover! | | | |
| F | C | F | G7 |
| With the ether set aside, you and I can freely glide, | | | |
| | C | G7 C | • 0 , |
| Supported on the wings of each other. | | | |
| 11 | O | | |
| C F C | Dm | (| 37 |
| Before I met you, my skies were never blue. | | | |
| C F C | | F G7 | |
| "My misery," I said, "just enlarges." | | | |
| F | Em | Dm | G7 |
| My head was always | | | |

 \mathbf{C}

And my feet were attached to plus charges.

