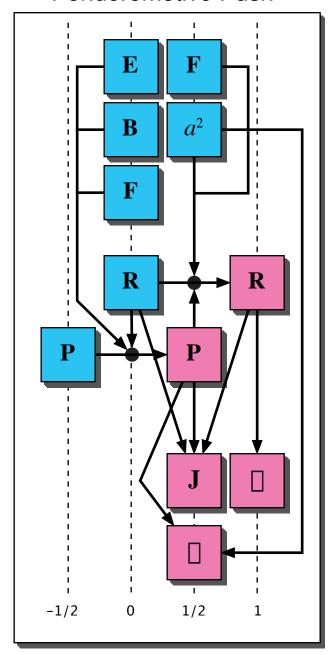
Ponderomotive Push



$${}_{t}\mathbf{P} = q \begin{bmatrix} \mathbf{E} + \mathbf{v} & \mathbf{B} & \frac{1}{4} \frac{q}{\langle \mathbf{D} n \rangle} & |a|^{2} \end{bmatrix}$$

$$\langle \mathbf{m} \rangle = \sqrt{m^{2} + P^{2} + \frac{q^{2}|a|^{2}}{2}}$$

$$\Box = \frac{j}{a} = \Box \underbrace{\frac{q_{i}\Box_{i}}{\langle \mathbf{m} \rangle_{i}}}$$