$$\frac{dS}{dt} = \vec{S} \times (\vec{\Omega}_{MDM} + \vec{\Omega}_{EDM}), \qquad (1.1a)$$

$$\vec{\Omega}_{MDM} = \frac{q}{m\gamma} \left[ (\gamma G + 1) \vec{B}_{\perp} + (1 + G) \vec{B}_{\parallel} - \gamma \left( G + \frac{1}{\gamma + 1} \right) \frac{\vec{\beta} \times \vec{E}}{c} \right], \qquad (1.1b)$$

$$\vec{\Omega}_{MDM} = \frac{q}{m\gamma} \left( 1 + g \right) \vec{B}_{\parallel}$$

$$(x, S, y)$$

$$\frac{d\vec{S}}{dt} = \vec{S} \times \vec{\Omega}_{MDM} = \frac{q}{m\gamma} \left( 1 + g \right) [\vec{S} \times \vec{B}_{\parallel}]$$

$$\vec{B}_{\parallel} = \vec{Q} \cdot 0, \quad BS \cdot 0 \vec{g}$$

$$1) \quad Chun \quad harpabuen \quad bepmurausho \quad bepz$$

$$\vec{S} = \vec{Q} \cdot 0, \quad 0, \quad Sy \vec{g} = \vec{Q} \cdot \vec{g} \cdot \vec{g}$$

$$w = \frac{G}{my} (1+9) Bs$$

w) Chun blow wanywa 
$$S = \frac{1}{2} 0, Ss, 0$$

$$\frac{dSs}{dt} = \frac{3}{my} (1+9) \left[ \frac{ex}{ex} \frac{ex}{ex} \frac{ex}{ex} \right] = 0$$

$$\frac{ex}{ex} \left[ \frac{1+9}{ex} \frac{ex}{ex} \frac{ex}{ex} \frac{ex}{ex} \right] = 0$$

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Trevecuryen e racmomou  $\omega = \frac{9}{m_V} (1+9) Bs 6 20 us 0 cu y$ 4) Chun uz 2-x xounoneam S= { Sx, Ss, 0}  $\frac{dS_{x}}{dt} = w S_{x} \frac{dS_{y}}{dt} = -w S_{y} \frac{dS_{z}}{dt}$ S Sydem npeyeceupobamo

5 S S Solpyr S B nu-mu

xy