2014 Autumn Semester, course for graduate student

Lecture notes: Physics of Laser-Plasma Interaction

VII. 自生磁场
(self-generated magnetic field)

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1. 热磁机制(大尺度磁场—流体力学尺度)

$$\frac{\partial \vec{B}}{\partial t} = \frac{c}{e}\lambda[\nabla T_e \times \nabla \ln n]$$

2. 等离子体波-粒子非线性作用的自生磁场：

（小尺度磁场---等离子体波长尺度）

$$\vec{B} = \frac{e}{i2m_e\omega_{pe}c}\vec{E} \times \vec{E}^*$$ X

谢 谢!

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