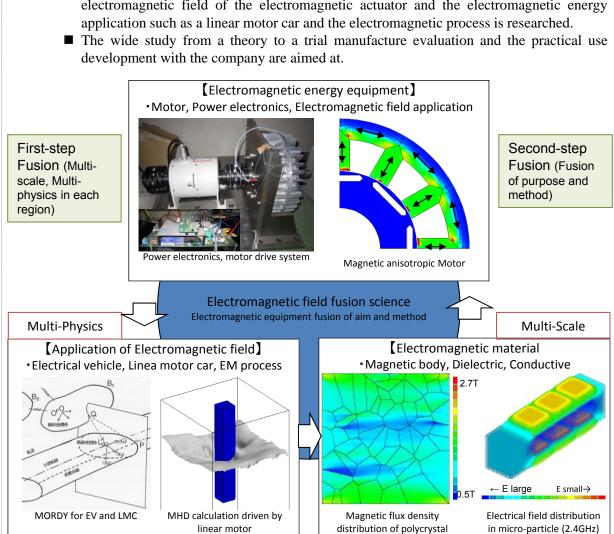
Electromagnetic Energy System Laboratory

(Fusion Science of Electromagnetic Field from Material to Equipment)

■ Background and summary

■ For the construction of the environmental load reduction technique, fusion science of electromagnetic field of the electromagnetic actuator and the electromagnetic energy application such as a linear motor car and the electromagnetic process is researched.



■ Main theme

- 1. Power electronics and motor drive system including an electric car.
- 2. Electromagnetic energy interaction with the material.
- 3. Environmental load reduction technique of the electromagnetic system using materials properties in.
- 4. Application study of the electromagnetic energy system to a linear motor car, materials processing.
- Reference [1] K. Fujisaki, Annual Mtg. IEEJ, C402-B1, 2011. [2] K. Fujisaki, E. Masada, Simulation, Vol. 3, pp.88-96, 1984. [3] K. Fujisaki, T. Ueyama, J.A.P., vol.83, pp.6356-6358, 1998. [4] K. Fujisaki, SMM20, 2011. [5] K. Fujisaki, COMPUMAG, 2011. [6] R. Yamada, K. Fujisaki, SMM20, 2011. [7] K. Fujisaki, JSAEM, vol.19, pp.306-311, 2011.
- ☐ Contact: Professor Dr. Eng. Keisuke FUJISAKI,
 - e-mail: fujisaki (at) toyota-ti.ac.jp (Tel: +81-(0)52-809-1826)