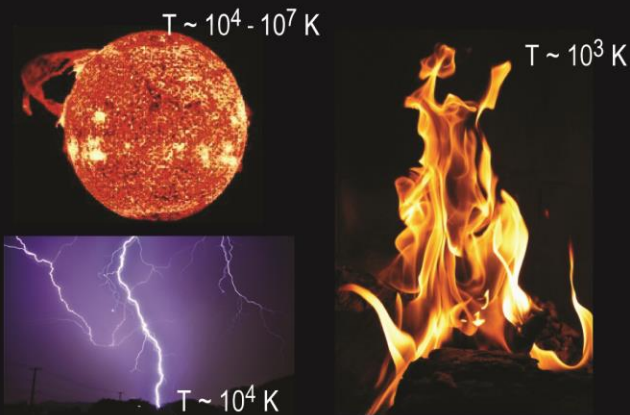


Let's make plasmas that are cold enough to touch safely

Course of Electronic Engineering
Course of Biomedical Engineering
Kaneko/Kato Laboratory

(Contact : Prof. Toshiro Kaneko: kaneko@tohoku.ac.jp)

Plasma : Light source of universe



Plasma

- Energetic state of matters in nature

Artificial plasma,
generated with electricity

Artificial plasmas

Hot

Cold

Fusion plasma : $T_i \sim 10^8 \text{ K}$



Welding : $T_i \sim 10^4 \text{ K}$



Fluorescent lamp : $T_i \sim 10^3 \text{ K}$



$T \sim 300 \text{ K}$



Cold plasma to touch safely

- What determines the brightness of plasma ?
- What determines the length of plasma ?