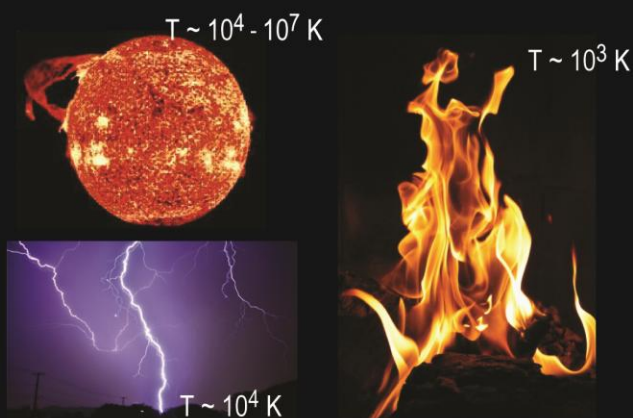


Let's make plasmas that are cold enough to touch safely

Course of Electronic Engineering
Course of Biomedical Engineering
Kaneko-Sasaki 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

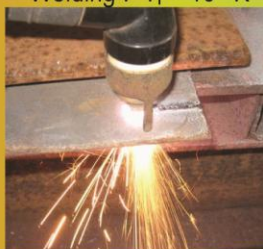
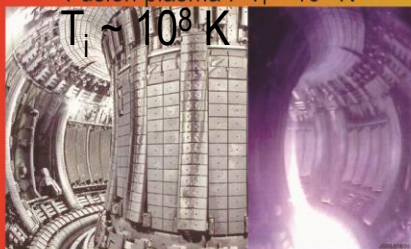
Cold

Fusion plasma : $T_i \sim 10^8$ K

Welding : $T_i \sim 10^4$ K

Fluorescent lamp : $T_i \sim 10^3$ K

$T \sim 300$ K



Cold plasma to touch safely

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