



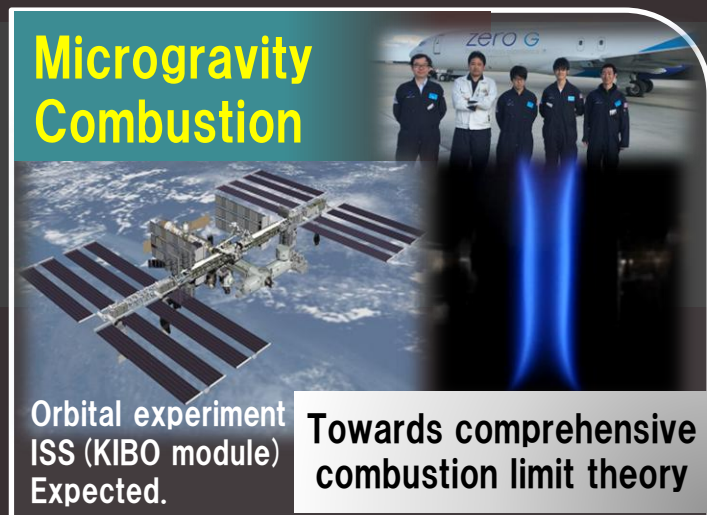
Maruta & Morii Lab.

Development of Innovative Combustion Technology

Keywords

Combustion, Energy, Engine, New concept fuel

Microgravity Combustion



Orbital experiment
ISS (KIBO module)
Expected.

Towards comprehensive
combustion limit theory

High Efficient SI Engine

Ignition experiment



New ignition methods
for next generation engines

Combustion Analysis

Keywords

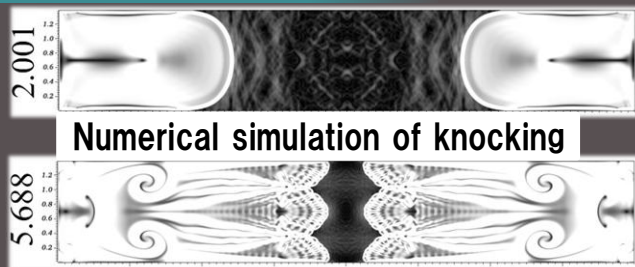
Measurement of
laminar flame speed.

Flammability of refrigerants,
Alternative fuel (e-fuel),
Carbon-free fuel
(Ammonia, Hydrogen)



A brand new method to
evaluate fuel reactivity

Supercomputing



Numerical simulation of knocking

Ring-shaped flame



Solving complicated
combustion phenomena

Features of the Laboratory

- Experimental, computational, and theoretical approaches
- Various opportunities for international experiences
 - ✓ International Conferences (Singapore, Canada, Greece)
 - ✓ Studying abroad (USA)
 - ✓ Accepting International Students and Researchers (Oman, Serbia)
- Joint research with many companies



Lab HP



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