

# Shining Bloom



**Member**

Yuto Nakagawa (D2)

Ryuki Shimizu (M2)

Hiroaki Yoneda (M2)

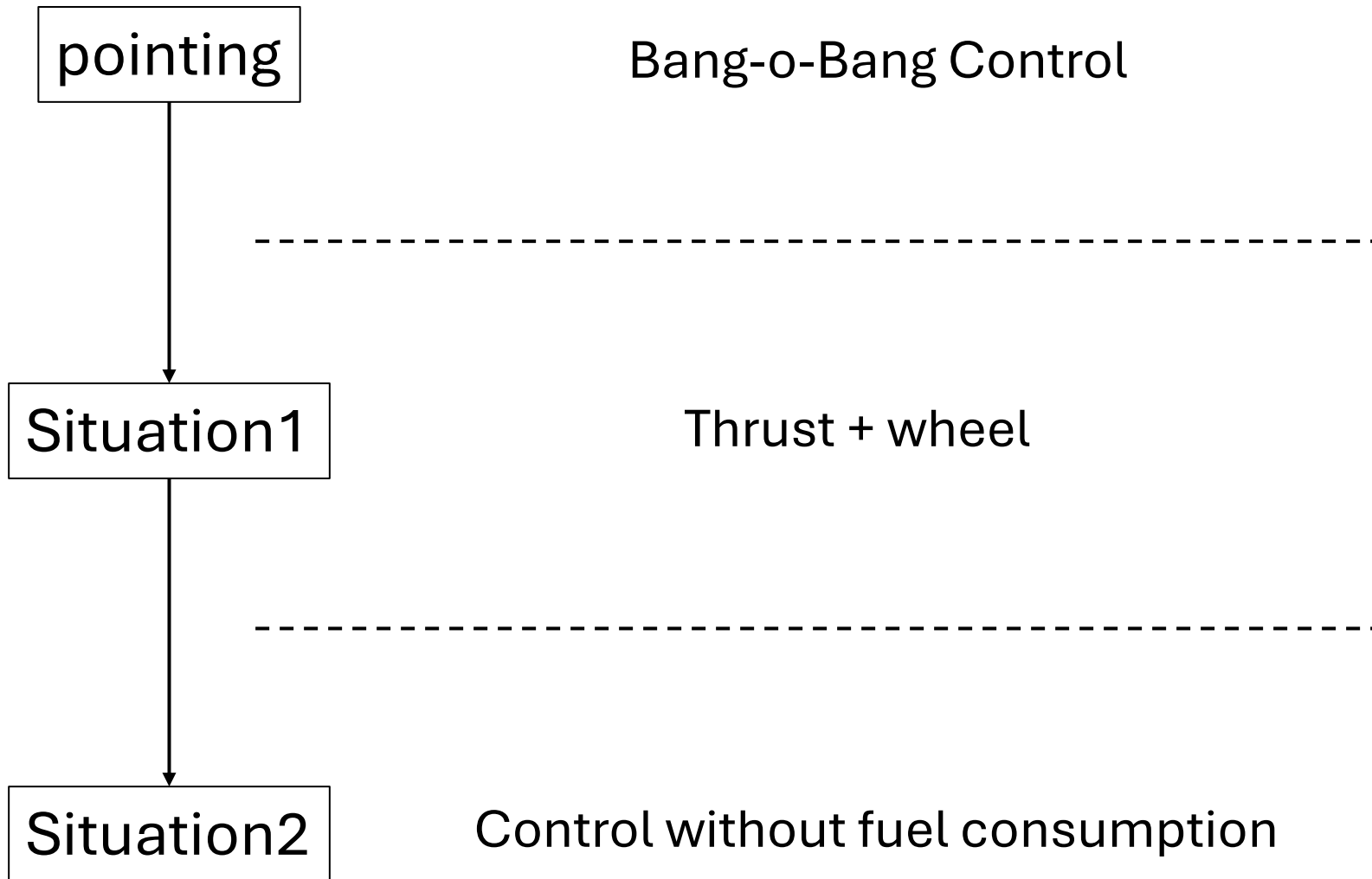
Hirona Kawahara (M1)



Ima Sakihokorimasu

# The Outline of Mode

---



Pointing → Bang-o-bang control

➤ Torque change by current time

$t < t_1$  : Forward direction torque

$t_1 < t < t_2$  : Stop

$t_2 < t < t_3$  : Reverse direction torque

➡ Optimizing of balance fuel consumption & control time

Situation1 → Thrust & Wheel

External disturbance(SRP) ➡ Compensation

## Situation 2 → Control without fuel consumption

- ◆ External disturbance(SRP)
  - ➔ Compensation
- ◆ P control or PD control
  - ➔ Torque compensation & Posture maintain
- ◆ Maximum torque / angular momentum limits
  - ➔ Correction processing

