

**Session Program**

**27-30 Jan 2020**

**Miyazaki Workshop on Particle Physics and  
Cosmology 2020**

***session***

Aoshima Grand Hotel  
Aoshima, Miyazaki City, Miyazaki, Japan

## Monday 27 January

20:00

### session: 1 : chair: Masahide Yamaguchi

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

20:00–20:45

#### Modular flavor symmetries

**Speaker**

Tatsuo Kobayashi

20:45–21:30

#### Flux compactification and naturalness (Canceled because of flight cancel due to bad weather)

**Speaker**

Nobuhito Maru

21:30

# Tuesday 28 January

08:00

## session: Discussion

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

09:00

09:00

## session: 2: chair: Nobuhito Maru

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

09:00–09:45

### chiral gauge theories and weak gravity conjecture

#### Speaker

Tetsutaro Higaki

09:45–10:30

### Enlarging the Scope of the Cosmological Collider: Beyond the Positivity Bounds

#### Speaker

Toshifumi Noumi

10:30

11:00

## session: 3: chair: Tetsutaro Higaki

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

11:00–11:45

### S-matrix Unitarity in Higher Derivative Gravity

#### Speaker

Yugo Abe

11:45–12:30

### Gravity as local-Lorentz gauge theory

#### Speaker

Kin-ya Oda

12:30

14:00

## session: 4: chair: Kin-ya Oda

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

14:00–14:45

### Causal Structures in Gauss-Bonnet gravity

#### Speaker

Keisuke Izumi

14:45–15:30

### 深層学習によるCOMET実験データ解析

#### Speaker

Joe Sato

15:30

16:00

## session: 5: chair: Joe Sato

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

16:00–16:45

### Radiatively induced type-II seesaw and a relevant phenomenological analysis

#### Speaker

Takaaki Nomura

16:45–17:30

### Muon g-2 in 2HDMs at LHC

17:30  
20:00  
22:00

**Speaker**  
Michihisa Takeuchi

**session: Discussion**  
**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

# Wednesday 29 January

08:00

## session: Discussion

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

09:00

09:00

## session: 6: chair: Ken-ichi Okumura

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

09:00–09:45

### Catalytic Creation of Baby Bubble Universe with Small Positive Cosmological Constant

#### Speaker

Yutaka Ookouchi

09:45–10:30

### Bounce configuration from gradient flow

#### Speaker

Yutaro Shoji

10:30

11:00

## session: 7: chair: Yutaka Ookouchi

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

11:00–11:45

### Vacuum decays around spinning black holes

#### Speaker

Masahide Yamaguchi

11:45–12:30

### Discussion

12:30

14:00

## session: Discussion

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

17:30

20:00

## session: Discussion

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

21:30

# Thursday 30 January

08:00

## session: Discussion

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

09:00

09:00

## session: 8: chair Osamu Seto

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

09:00–09:45

### Phenomenology of superconformal subcritical hybrid inflation

#### Speaker

Koji Ishiwata

09:45–10:30

### Hide and seek with massive fields in modulus mediation

#### Speaker

Ken-ichi Okumura

10:30

11:00

## session: 9: chair: Tatsuo Kobayashi

**Session** | **Location:** Aoshima Grand Hotel, Aoshima, Miyazaki City, Miyazaki, Japan

11:00–11:45

### Hubble tension とダークセクター

#### Speaker

Osamu Seto

11:45–12:30

### Light gauge boson and anomalies

#### Speaker

Takashi Shimomura

12:30