# The extreme Universe viewed in very-high-energy gamma rays 2022

# Report of Contributions

Contribution ID: **1**                                             Type: **not specified**

# Status of CTA-LST

*Monday, 6 February 2023 10:35 (35 minutes)*

**Presenter:**   SAITO, Takayuki (ICRR, Univ. of Tokyo)

**Session Classification:**   Session 1: Large Size Telescopes (LSTs) of the Cherenkov Telescope Array (CTA)

Contribution ID: **2**

Type: **not specified**

# Performance of joint LST-1 + MAGIC analysis chain

*Monday, 6 February 2023 11:10 (40 minutes)*

**Presenter:** SITAREK, Julian (Univ. of Łódź; visiting ICRR)

**Session Classification:** Session 1: Large Size Telescopes (LSTs) of the Cherenkov Telescope Array (CTA)

Contribution ID: **3**                                                                  Type: **not specified**

# LHAASO status and recent results

*Monday, 6 February 2023 13:00 (40 minutes)*

**Presenter:**   YANG, Ruizhi (Univ. of Science and Technology of China)

**Session Classification:**    Session 2: High-Energy Astrophysical Observatory Network (1)

Contribution ID: 4                                                Type: **not specified**

# IceCube, IceCube-Upgrade, and IceCube-Gen2

*Monday, 6 February 2023 13:40 (40 minutes)*

**Presenter:**   ISHIHARA, Aya (ICEHAP, Chiba Univ.)

**Session Classification:**   Session 2: High-Energy Astrophysical Observatory Network (1)

Contribution ID: **5**                                                                    Type: **not specified**

# VHE gamma follow-up programs of HE neutrino alerts

*Monday, 6 February 2023 14:20 (35 minutes)*

**Presenter:**   NODA, Koji (ICEHAP, Chiba Univ.)

**Session Classification:**   Session 2: High-Energy Astrophysical Observatory Network (1)

Contribution ID: **6**                                                          Type: **not specified**

# The quest for new correlations in the realm of the Gamma-Ray Burst - Supernova connection

*Monday, 6 February 2023 15:20 (30 minutes)*

**Presenter:**   DE SIMONE, Biagio (University of Salerno & INFN; visiting NAOJ)

**Session Classification:**   Session 3: Gamma-Ray Bursts (GRBs)

Contribution ID: **7**                                                    Type: **not specified**

# Formation of hard VHE spectra in X-ray dominated sources

*Tuesday, 7 February 2023 15:40 (30 minutes)*

**Presenter:** KHANGULYAN, Dmitry (Rikkyo University)

**Session Classification:** Session 7: Active Galactic Nuclei (AGNs) & Gamma-Ray Bursts (GRBs)

Contribution ID: **9**

Type: **not specified**

# Gamma-ray emission from primordial black holes

*Monday, 6 February 2023 16:50 (40 minutes)*

**Presenter:** KOHRI , Kazunori (KEK)

**Session Classification:** Session 5: Primordial Black Holes (PBHs)

Contribution ID: **10**　　　　　　　　　　　　　　　　　　Type: **not specified**

# Search for Primordial Black Holes with the first Large Size Telescope of CTA

*Monday, 6 February 2023 17:30 (25 minutes)*

**Presenter:** KANAMORI , Shotaro (ICRR, Univ. of Tokyo)

**Session Classification:** Session 5: Primordial Black Holes (PBHs)

Contribution ID: **12**                                                    Type: **not specified**

# Exploring the role of cosmic rays in galaxies with high energy signatures

*Tuesday, 7 February 2023 10:00 (40 minutes)*

**Presenter:**   R. OWEN, Ellis (Osaka Univ.)

**Session Classification:**   Session 6: Cosmic rays and High Energy Gamma-Rays (1)

Contribution ID: **13**                                                          Type: **not specified**

# Physics at the extreme in our Galaxy as viewed in very-high-energy gamma rays

*Tuesday, 7 February 2023 10:40 (40 minutes)*

**Presenter:** REIMER, Olaf (Univ. of Innsbruck; visiting ICRR)

**Session Classification:** Session 6: Cosmic rays and High Energy Gamma-Rays (1)

Contribution ID: **14**                                                    Type: **not specified**

# First detection of the very-high-energy gamma rays from the recurrent nova RS Ophiuchi with LST-1

*Tuesday, 7 February 2023 11:20 (30 minutes)*

**Presenter:** KOBAYASHI, Yukiho (ICRR, Univ. of Tokyo )

**Session Classification:** Session 6: Cosmic rays and High Energy Gamma-Rays (1)

Contribution ID: **17**                                                    Type: **not specified**

# Prospects for Observations of Jetted and Unjetted Active Galactic Nuclei with CTA

*Tuesday, 7 February 2023 14:30 (40 minutes)*

**Presenter:** INOUE, Yoshiyuki (Osaka Univ.)

**Session Classification:** Session 7: Active Galactic Nuclei (AGNs) & Gamma-Ray Bursts (GRBs)

Contribution ID: **18**　　　　　　　　　　　　　　　Type: **not specified**

# Modern picture of the Intergalactic Magnetic Field search with very-high-energy gamma-ray

*Tuesday, 7 February 2023 15:10 (30 minutes)*

**Presenter:** VOVK, Ievgen (ICRR, Univ. of Tokyo)

**Session Classification:** Session 7: Active Galactic Nuclei (AGNs) & Gamma-Ray Bursts (GRBs)

Contribution ID: **19**

Type: **not specified**

# Current status and future prospects of gravitational-wave observations

*Monday, 6 February 2023 15:50 (40 minutes)*

**Presenter:** MORISAKI , Soichiro (ICRR, Univ. of Tokyo)

**Session Classification:** Session 4: High-Energy Astrophysical Observatory Network (2)

Contribution ID: **20**                                      Type: **not specified**

# Gamma-ray observations in the vicinity of supernova remnants G106.3+2.7 and HB9

*Tuesday, 7 February 2023 13:00 (30 minutes)*

online

**Presenter:**   OKA , Tomohiko (Kyoto Univ.)

**Session Classification:**   Session 6: Cosmic rays and High Energy Gamma-Rays (2)

Contribution ID: **21**                                           Type: **not specified**

# Quantification of the hadronic and leptonic gamma rays in SNRs, RX J1713.7-3946 and RX J0852.0-4622

*Tuesday, 7 February 2023 13:30 (30 minutes)*

online

**Presenter:** FUKUI, Yasuo (Nagoya Univ.)

**Session Classification:** Session 6: Cosmic rays and High Energy Gamma-Rays (2)

Contribution ID: **22**                                          Type: **not specified**

# Closing

*Tuesday, 7 February 2023 16:10 (10 minutes)*

**Presenter:**   TESHIMA, Masahiro

**Session Classification:**   Closing