INTERNATIONAL SYMPOSIUM ON "THE RECENT PROGRESS AND FUTURE DIRECTIONS OF ULTRA-HIGH ENERGY COSMIC RAY PHYSICS"

UHECR2016

Oct.11–14, 2016
Kyoto Research Park, KYOTO, JAPAN

https://indico.cern.ch/event/504078/
Preface

Observational studies of UHECRs achieved remarkable progress in the last decade. The upgrade of the Pierre Auger Observatory (AugerPrime) and the extension of the Telescope Array (TAx4) are ongoing to elucidate the origin and nature of cosmic rays at the highest energies. UHECR 2016 is the fourth conference in a series that started in Nagoya (2010), and continued at CERN (2012) and Springdale in Utah (2014). The symposium will focus on the highest energy cosmic rays as well as cosmic rays at lower energies above 1 PeV, and multi-messenger approaches, including

- Recent results from UHECR observations and upgrade/extension plans
- Reports of the Working Groups on energy spectrum, composition, anisotropy, hadron interaction models and multi-messenger
- Next-generation observatories from space and ground

UHECR2016 will be held at the Kyoto Research Park (KRP, http://www.krp.co.jp/english/). Room 1 on the second floor of the Western Zone Building #4 is the main venue, and screen view in Room 2 on the same floor is also available. The conference dinner is at the Atrium (Building #1) of KRP on Oct 12. Enjoy Japanese food, wine, whiskey, and also a traditional Kyoto Maiko’s performance.

* The sizes of the logos are not exactly scaled by the amount of grant provided.
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Access to the KRP  http://www.krp.co.jp/english/access_to_krp/

From Kansai International Airport to Kyoto City

• MK Skygate shuttle (3,600 JPY)

  This service takes you directly to your destination. A Shuttle reservation is required 2 days before your arrival date. The Meeting point (MK counter) is located next to Gate H of the airport South Exit. Traveling time is about 120 minutes. For more information: http://www.mktaxi-japan.com/

• Kansai Airport Limited Express HARUKA, by Japan Railway (JR) (2,850 JPY for non-reservation seat)

  Traveling time to Kyoto Station is 75 minutes. The tickets can be purchased at the station office. For more information:

• Limousine Bus, by KATE (Kansai Airport Transportation Enterprise) (2,550 JPY)

  This bus leaves every 30-40 minutes. Traveling time to JR Kyoto Station is about 85 minutes. The tickets can be purchased from vending machines located near the bus stops.

From JR Kyoto Station to KRP

• Taxi

  10 minutes (Approx. 1,000 JPY)

• JR San-in or Sagano line (Local)

  Please get off at the first stop, Tambaguchi Station (4 minutes, 140 JPY). 4 minutes to walk from the station to Kyoto Research Park.

UHECR2016, KYOTO
Venue

Room 1 and 2, Building #4 in the Western Zone of the KRP
ホワイトボード
天井吊下スクリーン
演台

会場:ルーム1（西地区4号館2階）

備品:備品パック②

有線マイク
レーザーポインタ
ワイヤレスマイク
卓上ライト
プロジェクター(天井吊)

日程:2016年10月10日～14日 9時～18時

主催者:最高エネルギー宇宙線国際会議2016（UHECR2016）

設営:スクール80席

会場:ルーム2（西地区4号館2階）

設営:シアター115席
Information

• Venue: Room 1 and Room 2, the 2nd floor of the W4 Building
  • The presentations are given at the Room 1, and screen-viewed in the Room 2.
• Poster sessions: During the coffee breaks, in the Room 2.
  • Posters are exhibited all the days in the conference, no changes.
• Rooms are available in
  • Oct 10: 15:00 - 19:00 (Registration and Welcome Cocktail)
  • Oct 11 and 14: 08:00 - 20:00
  • Oct 12:
    • Room 1 : 08:00 - 18:00
    • Room 2 : 08:00 - 17:00
  • Oct 13: 08:00 - 13:00
• Registration: 2nd floor of the W4 building, from 15:00 Oct 10. Enjoy also Welcome Cocktail.
• Welcome cocktail: 2nd floor of the W4 building, 15:00 - 19:00, Oct 10
  • Wine and snacks served.
• Conference dinner: 18:00 - 20:00 On Oct 12, at Atrium (Building #1) of the KRP.
  • Enjoy traditional Kyoto Maikos’ performance.
• No session in the afternoon Oct 13.
  • Rooms are not available after 13:00.
• Internet access: Wi-Fi available. Instruction will be given at the conference.
• Lunch: Not served from the conference organizer. The KRP restaurant in the Building #1 is available, and there are several restaurants in the vicinity of the KRP.
**UHECR2016 (Kyoto) Time Table for Oral Presentations (ver: 2016.09.20)**

**Monday (10.Oct)**
- 8:30: Registration (if not yet)
- 9:00: Opening
- 9:10: TA Spectrum Summary
  - 9:30: Doini Ivanov (abstractID=59)
- 9:55: UHECR energy spectrum working group report
  - 10:05: TBA (abstractID=17)
- 10:15: Coffee Break
- 10:45: The MuJESS experiment: Measuring air fluorescence from Laboratory EAS at SLAC
  - 11:05: Pierre Sokolovsky (abstractID=46)
- 11:25: Energy spectrum and composition constraints on the transition from Galactic to extragalactic cosmic rays
  - 11:45: Roberto Pandolfi (abstractID=48)
- 12:05: Particle acceleration to ultra-high rigidity
  - 12:25: Martin Lamone (abstractID=57)
- 12:35: Memorial Address
  - (for Prof. James Watson Cronin)
  - (for Prof. Motokiho Nagano)

**Tuesday (11.Oct)**
- 8:30: TA Spectrum Summary
  - 9:00: Measurements of the mass composition of UHECRs with the Pierre Auger Observatory
  - 9:25: Metthias Plum (abstractID=70)
- 9:45: Composition Measurements via Depth of Maximum at the Telescope Array
  - 10:05: John Belo (abstractID=50)
- 10:10: Auger-TA composition working group report
  - 10:25: TBA (abstractID=64)
- 10:35: Coffee Break
- 11:05: Cosmic Rays Energy Spectrum observed by the TALE detector
  - 11:35: Tanja Abarzay (abstractID=31)
- 11:55: Cosmic ray physics with the KASCADE-VLASHQZ (abstractID=57)
  - 12:15: Markus Lauster (abstractID=65)
- 12:35: Cosmic Ray Energy Spectrum observed by the TALE detector
  - 12:55: Peter Tinyakov (abstractID=39)
- 13:15: Estimation of the invisible energy from the data collected by the Pierre Auger Observatory
  - 13:35: Alania Gabriela Mariazzi (abstractID=9)
- 13:55: Poster Session /Coffee

**Wednesday (12.Oct)**
- 8:30: Coffee Break
- 9:00: Constraints on UHECR sources from IceCube
  - 9:20: Aya Ishihara (abstractID=15)
- 9:40: Multi-messenger signals from transient candidates of UHECRs
  - 10:00: Kumi Kotoe (abstractID=62)
- 10:10: Auger-TA composition working group report
  - 10:20: TBA (abstractID=6)
- 10:30: Coffee Break
- 11:00: Cosmic Rays Energy Spectrum observed by the TALE detector
  - 11:30: Peter Tinyakov (abstractID=29)
- 11:50: Arrival Directions at Ultra-High Energies: A Review
  - 12:10: Amanda DI MATTEO (abstractID=28)
- 12:30: Review of model predictions for extensive air showers
  - 12:50: Shoichi Ogio (abstractID=26)

**Thursday (13.Oct)**
- 8:30: A Close Correlation of TA Hotspot Events with Flares of Galaxies Connected to the Virgo Cluster
  - 9:00: Marco Casolino (abstractID=5)
- 9:20: Influence of the galactic magnetic field on the trajectory of ultra-high energy cosmic rays
  - 9:40: Shoichi Ogio (abstractID=26)
- 10:00: Nonlinear Diffusive Shock Acceleration in GRB Afterglows
  - 10:20: Don Warren (abstractID=41)
- 10:50: IceCube-Gen2: The next generation neutrino observatory in Antarctica
  - 11:10: Stefan Coenders (abstractID=69)
- 11:30: Cosmic ray experiments with EAS at sea
  - 11:50: Gordon Thomson (abstractID=33)
- 12:30: Auger multidisciplinary subjects
  - 12:50: Choon-Hee Lee (abstractID=56)

**Friday (14.Oct)**
- 8:30: UHECR and cosmic cosmic neutrino
  - 9:00: TBA (abstractID=27)
- 9:20: Multi-messenger signals from transient candidates of UHECRs
  - 9:40: TBA (abstractID=64)
- 10:00: Auger-TA composition working group report
  - 10:20: TBA (abstractID=35)
- 10:30: Coffee Break
- 11:00: Cosmic-ray background in extragalactic cosmic rays
  - 11:30: Arjen, Van Vliet (abstractID=10)
- 11:50: Perspectives of silicon photomultipliers for ground-based cosmic ray experiments
  - 12:10: Catherine Peterson (abstractID=13)

**Opening Session**
- 14:00: Open Session / Coffee Break