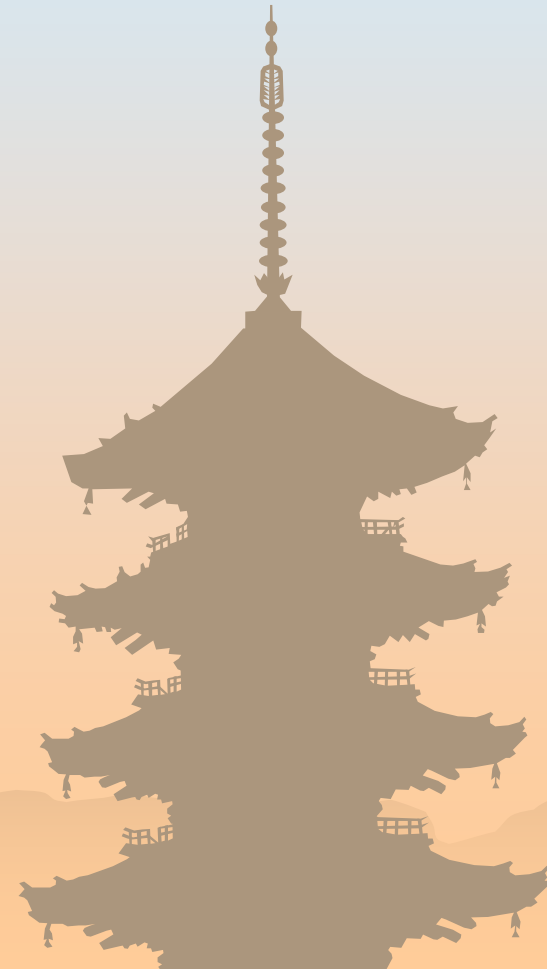


Welcome Address

Yoshitaka Itow

(STEL, Nagoya Univ.)

UHECR10, 2010Dec10, Nagoya



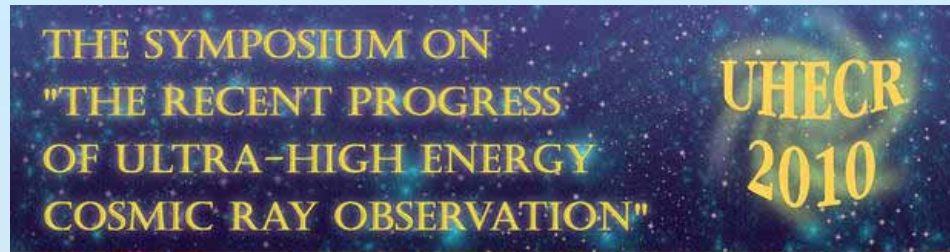
Welcome to UHECR10,

Welcome to Nagoya, Japan



Welcome to UHECR10

Exciting era comes



Nagoya Congress Center, Nagoya, JAPAN

Dec.10(Fri)-12(Sun),2010

web site : <http://uhecrcr2010.icrr.u-tokyo.ac.jp/>
contact : uhecrcr2010@icrr.u-tokyo.ac.jp

New generation experiments of UHECRs; Pierre Auger Observatory in Argentina and Telescope Array in Utah, USA, have been collecting a large number of event samples. Precision calibrations obtained by UHECR AIPM, FLASH, ELS and others are contributing to a rapid understanding of the shower phenomena at extremely high energy.

❁ The 1st intensive meeting in Japan after major UHECR data sets ready.

– AUGER, HiRes, TA....

❁ Opportunity to enlarge the fields involving many different cutting-edge fields

– x-rays, γ , ν , LHC, new methods, etc..

International Advisory Committee
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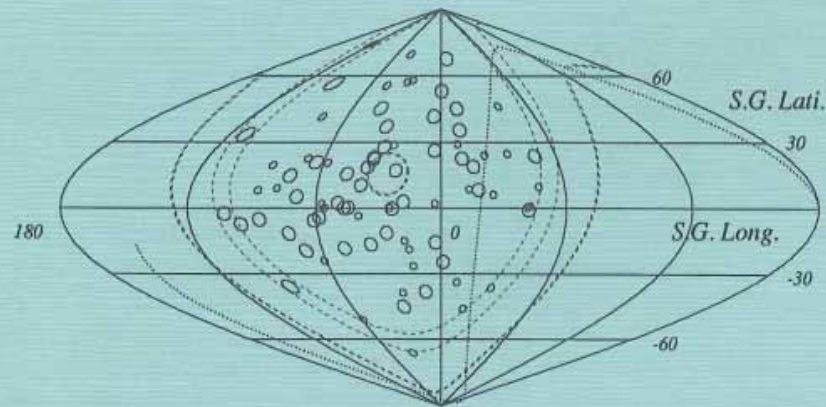
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• Osaka City University GCOE program "Research and Education linked by Einstein's Physics"
• Tokyo Institute of Technology GCOE program "Nanoscience and Quantum Physics"

14 years
ago...

Proceedings of International Symposium on
**Extremely High Energy Cosmic Rays :
Astrophysics and Future Observatories**

Tanashi, Tokyo, Japan
September 25-28, 1996

Edited by
Motohiko Nagano



Institute for Cosmic Ray Research
University of Tokyo

Foreword

M. Nagano

I. Opening Session

1. Opening address
J. Arafune
2. Science of Extremely High Energy Cosmic Rays (EHECR)
J.W. Cronin

II. Recent Experimental Results on EHECR

1. Recent Results of AGASA Experiments
N.Hayashida et al. ; presented by M.Nagano
2. Measurement of Air Fluorescence Yields and Re-evaluation of Fly's Eye Results
E.C. Loh and H.Y. Dai
3. Some Characteristics of EAS and Primary Cosmic Rays on Yakutsk Array Data
B.N. Afanasiev et al. ; presented by I.Ye.Sleptsov
4. Cluster Analysis of EHECR in the Northern Sky
Y. Uchihori et al.

III. Astrophysical and Particle Physics Aspects of EHECR

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F. Takahara
2. Cosmic Ray Acceleration at Relativistic Shock Waves
M. Ostrowski
3. The Supergalactic Structure and the Origin of the Highest Energy Cosmic Rays
P.L. Biermann, H. Kang and D. Ryu
4. What We Know, and What We Don't Know about Intergalactic Magnetic Fields
P.P. Kronberg
5. Cosmic Ray Anisotropies and Auger
R.W. Clay and A.G.K. Smith
6. Predictions of the Gamma-Ray Burst Model of Ultra High Energy Cosmic Rays
E. Waxman
7. Cosmic Topological Defects as Possible Sources of EHECR : The Current Status
P. Bhattacharjee

IV. Neutrinos and Gamma-Rays from Astronomical Objects

1. First Observation of Neutrino in Super-Kamiokande
Y. Itoh
2. EGRET: The High-Energy Gamma Ray View of the Sky
D.J. Thompson
3. TeV Gamma Rays from Active Galactic Nuclei
T.C. Weekes et al.
4. The Current Status of Cosmic Ray Experiment in Tibet
T. Yuda

V-1. Overview of On-going Projects

1. The High Resolution Fly's Eye (HiRes) Project
M. Al-Seady et al. ; presented by P. Sokolsky
2. The Telescope Array Projects
N.Hayashida et al. ; presented by M. Teshima
3. The Pierre Auger Project
P. Mantsch

V-2. Simulation Studies of On-going Projects

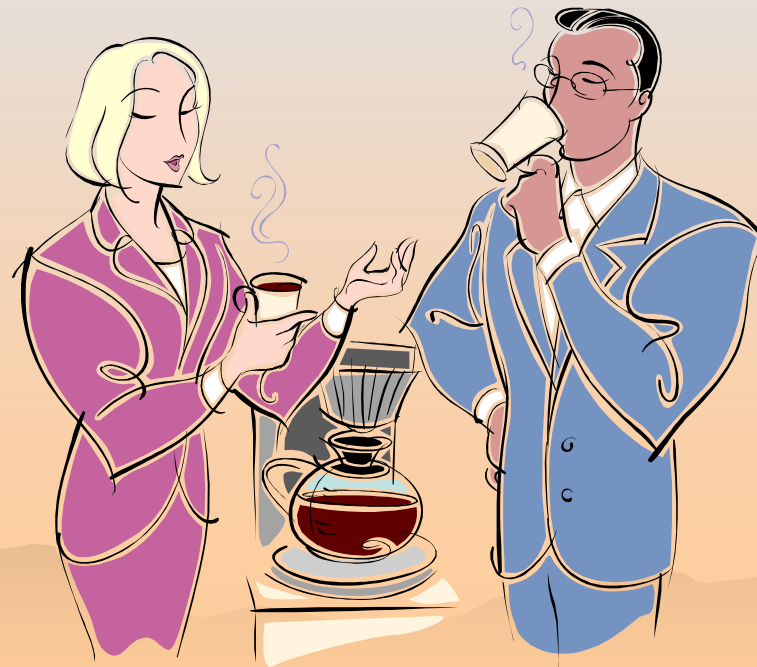
1. The LPM and Geomagnetic Effects on the Development of Air Showers in the GZK Cutoff Energy Region
M. Kasahara
2. Composition Measurements with Auger
J. Matthews
3. Extremely High Energy Neutrinos and their Detection by Future Air Fluorescence Detector
S. Yoshida

V-3. Simulation and R&D on Measurement Techniques

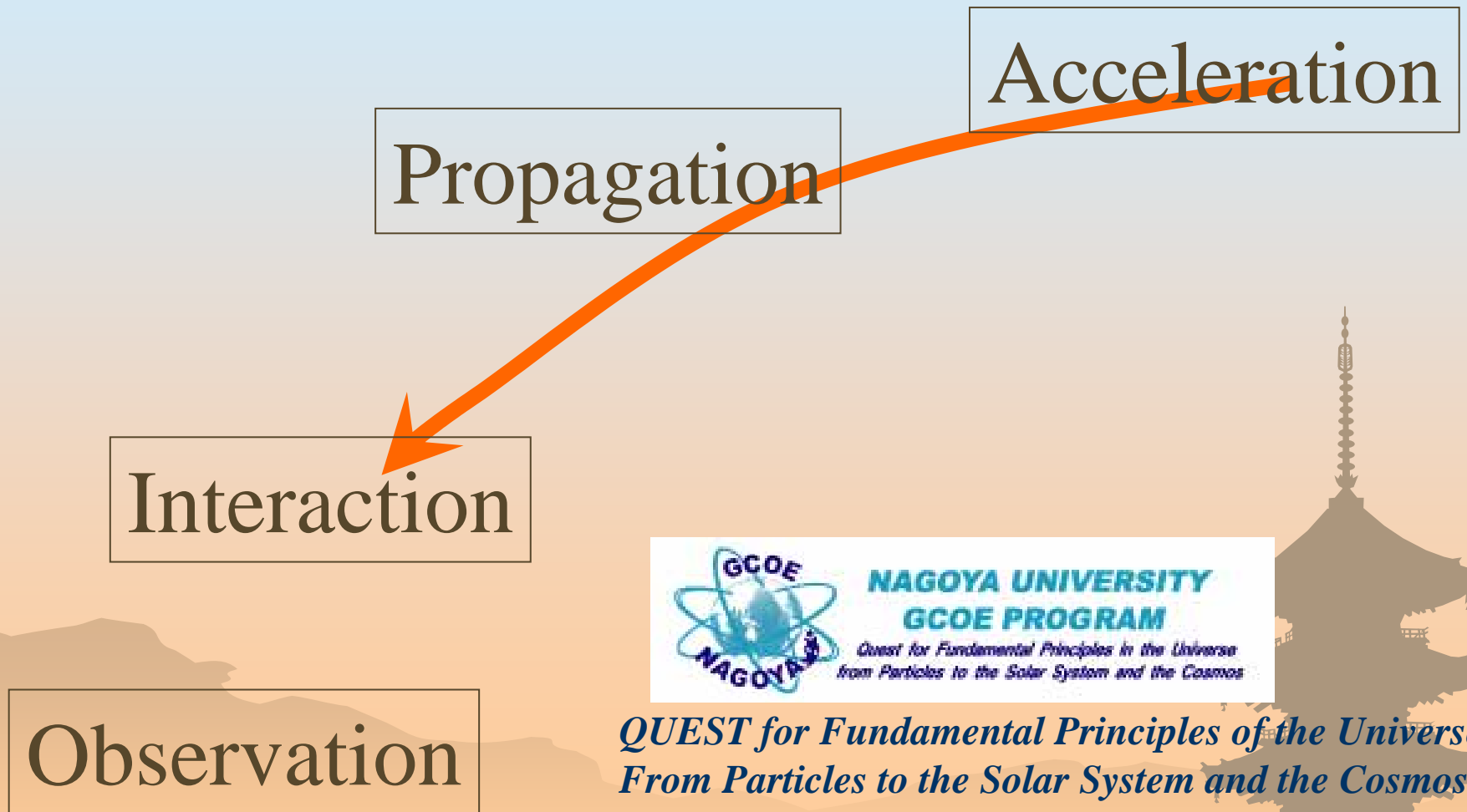
1. Atmospheric Monitoring for Fluorescence Detector Experiments
P. Sokolsky
2. Effect of Atmosphere on HiRes Aperture and Resolution
H.Y. Dai
3. Extending the Duty Cycle of a Hybrid Detector
B.R. Dawson and A.G.K. Smith
4. Simulations of the Proposed Auger Water Čerenkov Ground Array
C. Pryke
5. Experience with the Buenos Aires Water Čerenkov Detector

Toward consistent understanding

- ❁ Data vs Model ?
- ❁ Data vs Data ?
- ❁ Model vs Model ?



Collecting all the wisdom across the fields



Year 2010: A big year of Nagoya



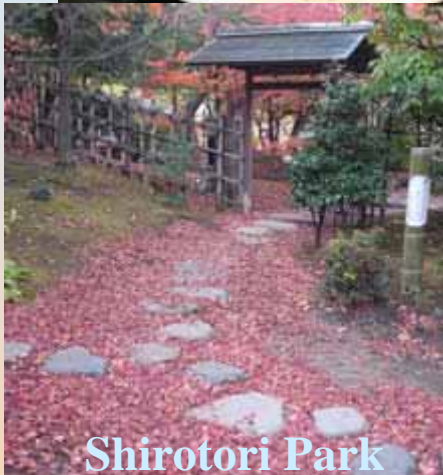
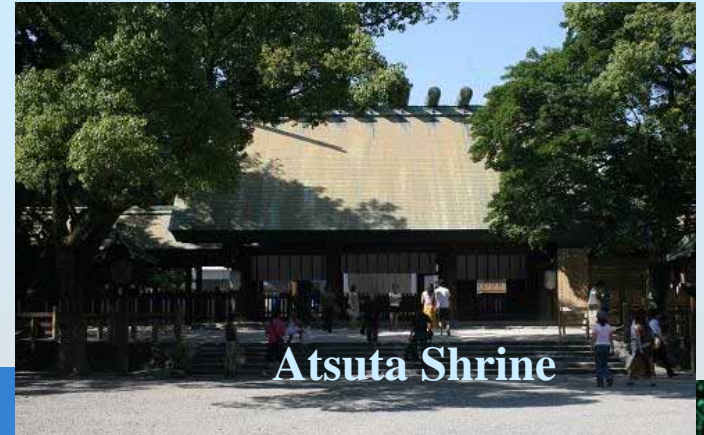
Baseball "Chunichi



Nagoya Grampus"



Enjoy Nagoya....



Please Enjoy Meeting, Enjoy Nagoya

Thank you

