



ICTS

INTERNATIONAL
CENTRE *for*
THEORETICAL
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH



Ooguri Fest
October 2022

Spenta R. Wadia
ICTS-TIFR

Hiroshi's First Visit to India

Three remarkable papers appeared towards the end of 1986 from the Univ of Tokyo-Hongo:

- Conformal and Current Algebras on General Riemann Surface...1986 with T. Eguchi
- Soliton Equations and Free Fermions on Riemann Surfaces...1986 with Ishibashi and Matsuo
- Chiral Bosonization on Riemann Surface...1986 with T. Eguchi

After reading these papers, we invited this brilliant young physicist Hiroshi to India - DST Workshop on Particle Physics-Superstring Theory 13-24 Dec 1987, IIT-Kanpur where he delivered a talk on "Conformal Field Theory on a Riemann Surface".



Kanpur memories

- I remember we went cycling to the Ganges (with almost no light!)..and took a boat ride in the river, during which he mentioned that he had got an offer from IAS Princeton!
- He postponed his return to Japan to visit C. S. Seshadri in Chennai as he was interested around that time in understanding the celebrated work of C. S. Seshadri and M. S. Narasimhan, on the moduli space of holomorphic vector bundles on a Riemann surface.



...with K. S Narain, Sumit Das,
R. Ramachandran ...IIT-K



...the glass has
Coca-Cola!

Hirosi does not return to Japan on schedule!

His mother was worried and contacted me!

I sent her a telegram that, "Hirosi was in Kanpur then went to Madras will leaving for Japan on 1 Jan 88 He is well".

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YOSHIKO OHGURI 8
MOTOHAMACHO
GIFU JAPAN

HIROSHI WAS IN KANPUR THEN WENT TO MADRAS WILL LEAVING FOR JAPAN ON
1 JAN 88 HE IS WELL
SPENTA WADIA

COL 8 1 88

Next visit to India: Strings 2001-TIFR Mumbai



“How Noncommutative Gauge
Theories Couple to Gravity”

Hirosi visited ICTS in 2017 and 2018 and supported it in many ways...



String Theory: Past and Present
(ICTS-TIFR, 11 to 13 January 2017)

- He met Ms Sudha Murty, Chairperson of the Infosys Foundation during his visit in 2017 and enabled the “Infosys Foundation International Exchange Program at ICTS”...a gift of half a million dollars.
- The Foundation supported the 12th Asian Winter School in 2018 and travel of Indian speakers and participants of Strings 2018 in Okinawa, it also supported international group collaborations and discussion meetings.

ICTS at Ten
Celebrating the unity of science

INTERNATIONAL CENTRE for THEORETICAL SCIENCES
TATA INSTITUTE OF FUNDAMENTAL RESEARCH JAWAHARLAL NEHRU PLANETARIUM

PUBLIC LECTURE & MOVIE SCREENING

THE SCIENCE OF
THE MAN FROM THE 9 DIMENSIONS

"The Man from the 9 Dimensions" is a 3D dome theater movie on Superstring Theory, the leading candidate for the unified theory of forces and matters including gravity. Professor Ooguri served as an advisor to the movie to ensure its scientific accuracy. The movie has received numerous prizes and honors including the 2016 Best Educational Production Award of the International Planetarium Society and the 2017 Best Full Feature Film and Best 3D Show of the Immersive Film Festival in Portugal. Professor Ooguri will explain the science behind the movie, which will take us from the microscopic world of elementary particles to the macroscopic world of the universe, and to its beginning – the Big Bang.

The trailer and other information on the movie can be found at www.miraikan-jst.go.jp/sp/9dimensions/en/

THE LECTURE WILL BE FOLLOWED BY SCREENING OF THE FILM, "THE MAN FROM THE 9 DIMENSIONS"

HIROSI OOGURI
Fred Kavli Professor Of Theoretical Physics And Mathematics
Director Of The Walter Burke Institute For Theoretical Physics
California Institute Of Technology

Principal Investigator
Kavli Institute For The Physics And Mathematics Of The Universe
The University Of Tokyo

President
Aspen Center For Physics

6.30 pm, 14.01.2018
**J. N. PLANETARIUM,
BANGALORE**

9次元からきた男

ICTS at Ten

The Science of **The Man from the 9 Dimensions**

A great contributor
to Science Outreach:
Popular books and a
Movie



A 3D dome theater movie on Superstring Theory, the leading candidate for the unified theory of forces and matters including gravity. Hiroshi was the scientific advisor.

2016 Best Educational Production Award of the International Planetarium Society and the 2017 Best Full Feature Film and Best 3D Show of the Immersive Film Festival in Portugal.

Contribution to the Asian Winter Schools on Strings, Particles and Cosmology

The Asian Winter School on Strings, Particles and Cosmology is a pan-Asian collaborative effort of high energy theorists from China, India, Japan and Korea to give young researchers in Asia an opportunity to come together and learn about the latest developments from leading experts on the subject.

They were initiated in 2006 in conversations with Bum-Hoon Lee, Kimyeong Lee, Yoshihisa Kitazawa, Tamiaki Yoneya, Miao Li and Jianxin Lu to create a rotating Les Houches type school for the Asian region...the first school was organised in 2007 in Seoul.

Hiroshi joined the Asian school effort a few years later in 2011 as a member of its Steering Committee.

Brought in funding from the Kavli Foundation to support these Schools since 2018...presently called, “Kavli Asian Winter Schools on Strings, Particles and Cosmology”.

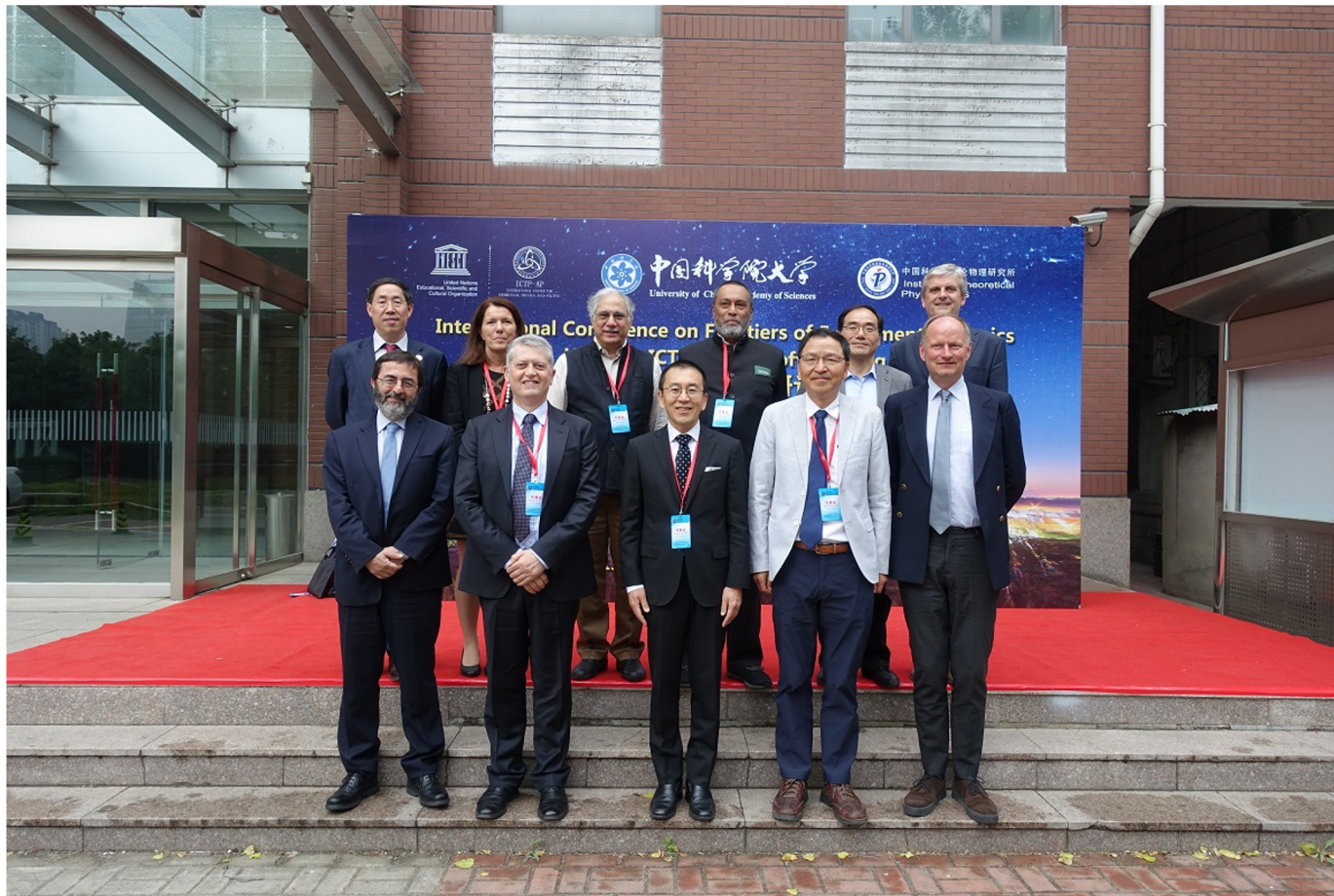
Conference in Honour of the 60th Birthday of Tohru Eguchi- Kyoto 2008



Hirosi and I were among the co-organisers of this conference.

30 Years of Mathematical Methods in High Energy Physics
In honor of Professor Tohru Eguchi's 60th birthday.

Scientific Council of ICTP-AP, Beijing- 2019



Synergistic contributions

Role in International String Conferences:

- Member of Advisory Committee for annual String conference ... since 2005
- Hiroshi has summarised recent annual String conferences...

this indicates his vast knowledge of most areas of the subject

as is also evident from the range of subjects he has worked on in String theory.

...Synergistic contributions

- He is the Founding Director of the Walter Burke Institute for Theoretical Physics at Caltech, in 2014
- He helped establish the Kavli Institute for the Physics and Mathematics of the Universe (IPMU) in Japan in 2007 which was around the same time as the establishment of ICTS!
- Involvement with the Aspen Center for Physics...President and presently Chair of the Board of Trustees

In Summary

- Hiroshi is an outstanding and prolific scientist who has made important contributions to many areas of fundamental physics;
- He has significantly contributed to building institutions worldwide and has served the scientific community with devotion and energy.



Happy Birthday Hiroshi! Wishing you many more active wonderful years.
May you be like this grand banyan tree to your family, friends, community
and humanity.