## **Closing address**

June 30, 2006 At Sendai International Center

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## What is the 21<sup>st</sup> Century COE Program ?

#### Targeted Support for Creating World-level Research and Education Bases

Based on its June 2001 report, "A Policy for the Structural Reform of Universities", the Ministry of Education, Culture, Sports, Technology and Science (MEXT) established a budget to launch in FY 2002 a new initiative called the 21st Century COE Program. Program works to cultivate a competitive academic environment among Japanese universities by giving targeted support to the creation of world-standard research and education bases (Centers of Excellence) in a range of disciplines.

By thus raising the standard of both education and research in them, the Program seeks to elevate Japanese universities to the world's highest echelons, while fostering people of talent and creativity who will be qualified to assume roles as world leaders. In this way, the Program aims to promote the development of universities that are vigorous in the pursuit of their mandates and that are competitive at the highest levels of international excellence.

In carrying out this Program, JSPS has established the "21st Century COE Program Committee" to oversee grant selection and program implementation.

High level research activity is assumed
Fostering young scientists is emphasized

# Three COEs of the school of science, Tohoku University



## (1) Giant Molecules and Complex Systems



### (2) Advanced Science and Technology Center for the Dynamic Earth









Mathematic/Physics/Earth Science

#### **Exploring New Science by Bridging Particle–Matter Hierarchy**

#### School of Science, Tohoku University

#### Goal

- Explore a new science of quark-hadron matter, quantum extreme matter, Star/galaxy matter, Cosmic dark matter /energy etc. which were generated crossing the particle, nuclear, condensed matter and astronomical hierarchies
- Promote interdisciplinary collaboration among physics, astrophysics and mathematics and intend to establish new science bridging particle-matter hierarchy
- Extend bi-directional international and domestic collaboration in wide variety of discipline based on high activity
- Foster young scientists and graduate school students under competitive and international atmosphere



# **Comments by the COE review committee**

## Very highly rated

- It is encouraged to deepen mutual understanding and further stimulate <u>collaboration among different hierarchies</u>.
  - Example
    - Condensed matter physics nuclear physics
    - Mathematics elementary particle physics
    - •
- It is important to educate students through domestic and/or international <u>collaboration not only in the same field but</u> <u>also among the neighboring research fields.</u>

Bridging and/or Fusing

Post-21COE proposal

JFY2008 -

This COE symposium is a good stepping stone

# Thanks

• To all the speakers, particularly those from outside Tohoku University

- To all the participants
- To the organizing committee members
   Y. Sumino (Chair), Y. Fujii, K. Hagino, A. Koreeda,
   H. Kusunose, T. Mitsui, H. Nakao, T. Sato,
   N. Uchida, M. Nakamura, M. Takada