

ยินดีต้อนรับ Welcome

Prof. Paulo Giubellino
(ALICE Spokesperson)

Prof. Luciano Musa
(Head of ITS upgrade project)



To **Suranaree University of Technology**

SUT, WHO'RE WE?



Suranaree University of Technology (SUT) was founded in 1990.

Location:

SUT is located in Nakhon Ratchasima (Korat) in NE part of Thailand, 250 km from Bangkok.

Natural disaster prone-free area - No earthquake and flooding.

Having very good infrastructures such communication, transportation, network and electricity.

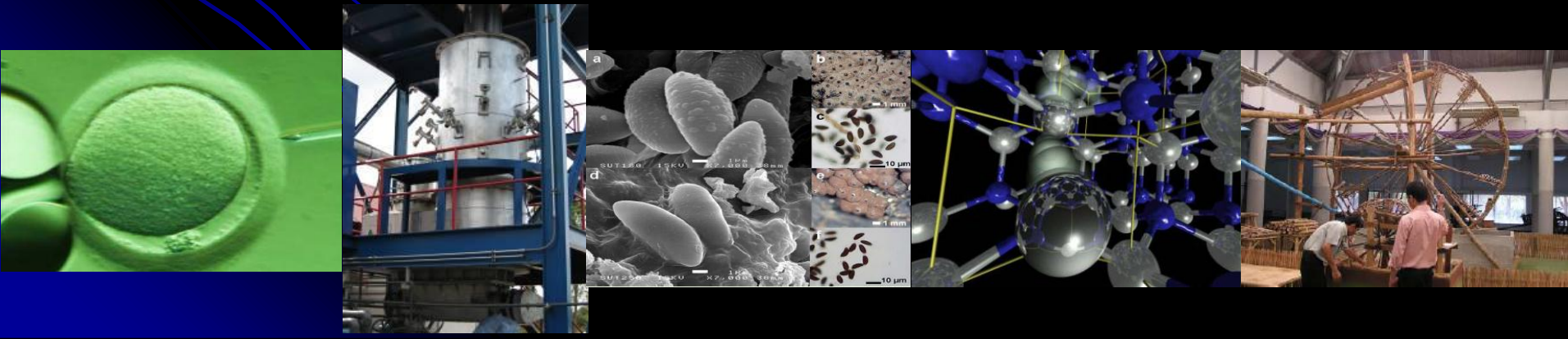


Our characteristics:

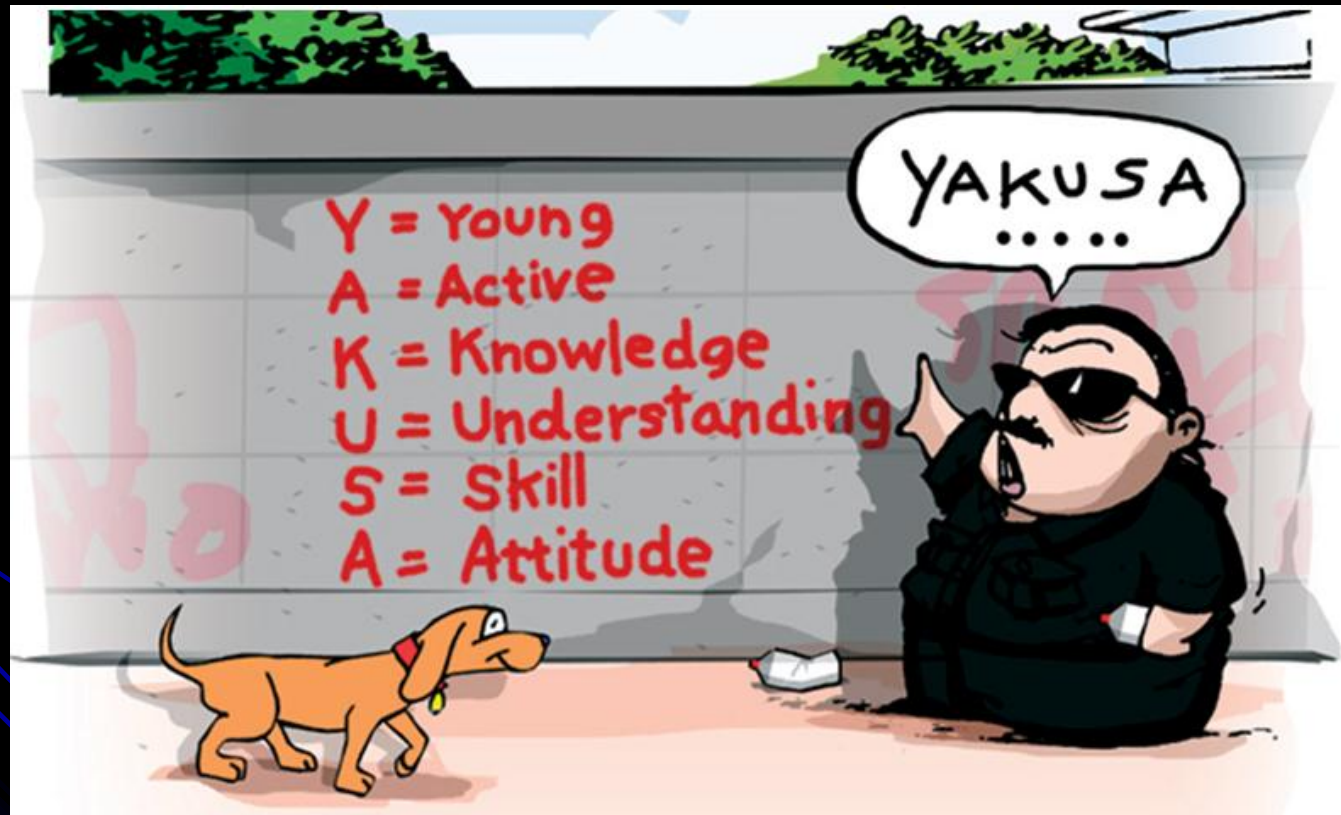
1. Thailand's first public autonomous university -
Academic freedom, Independent on personnel and financial management and University social responsibility.
2. Residential and Resort university - 24 hrs operation and accessing to our facilities and laboratories.



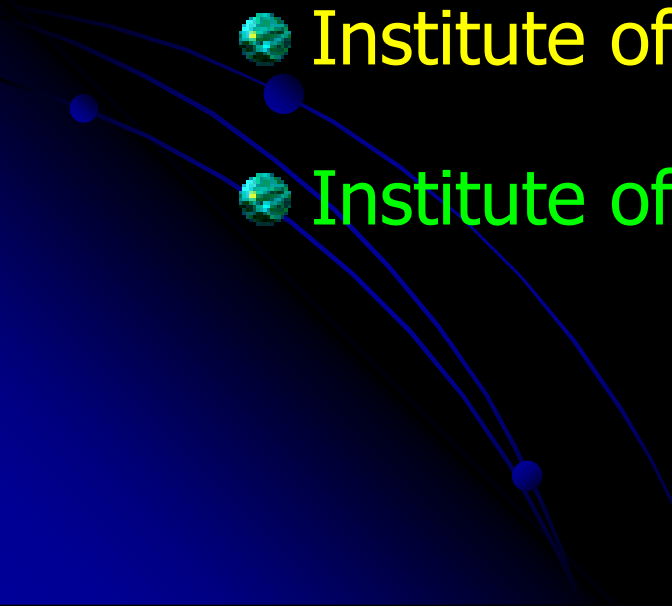
3. National and international leading university in science and technology - especially in the field of Physics.
4. Having one of the largest and most comprehensive Engineering school in Thailand.
5. Having Synchrotron Light Research Institute (SLRI) in our university area.



6. Very competitive human resources in multidisciplinary, interdisciplinary and transdisciplinary.



Academic institutes:

- Institute of Agricultural Technology
 - Institute of Engineering
 - Institute of Medicine
 - Institute of Nursing
 - Institute of Science
 - Institute of Social Technology
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Institute of Science

Chemistry

Applied Mathematics

Physics

Geoinformatics

Laser Technology

Institute of Social Technology

Information Technology

Institute of Engineering

Computer Engineering

Metallurgical/ Ceramic/ Polymer Engineering

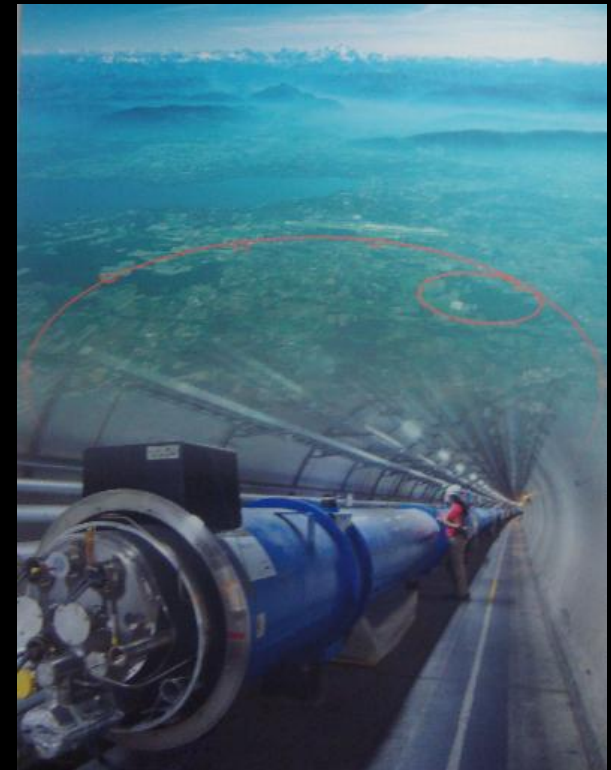
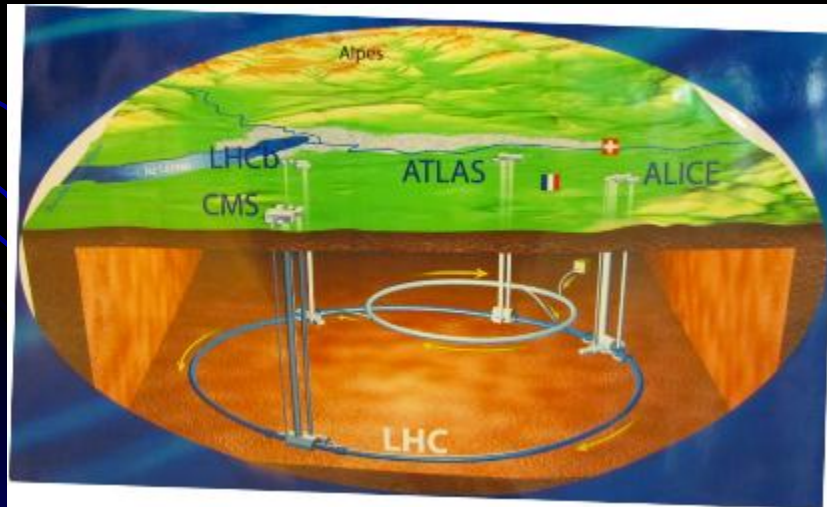
Electrical/ Telecommunication/ Electronic
Engineering

Mechatronics/ Mechanical /Manufacturing
Engineering

Cooperation and Networking: We're ready to serve ASEAN community in the coming years.



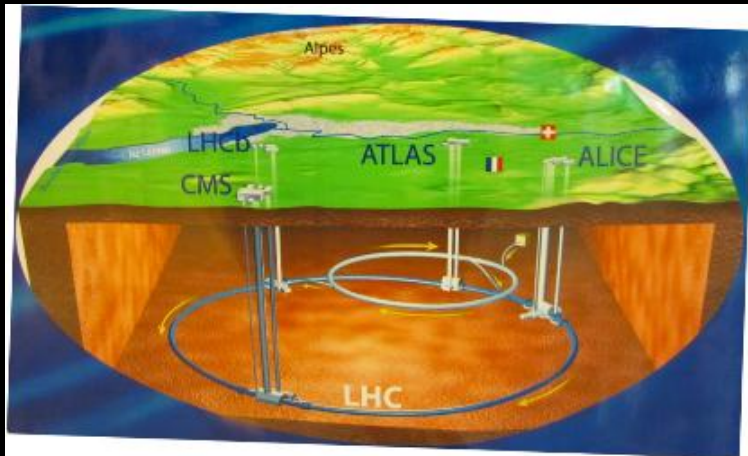
Visiting CERN/LHC/ALICE



Very SMART, KIND and NICE people:



GREAT facility:



Thailand and CERN



Dec 2008: visit of members from CERN to Thailand
October 2009: follow-up visit



Main scientific contacts with

- Chulalongkorn University (Burin Asavapibhop)
- Mahidol University (John David Ruffalo)
- Suranaree University of Technology (Chinorat Kobdaj, Head School of Physics)
- Synchrotron Light Research Institute (Chaivitya Silawatshanantai, Director)

GREAT Presentation:

Thailand and CERN



Foster closer scientific collaboration between Thailand and CERN



EoI signed in March 2009:
Participation of Physicists from
Universities and Research Institutes from
Thailand in the CMS Experiment at the
CERN LHC Accelerator



Consortium of Thailand institutes
becoming Member of the CMS
Collaboration



MoU signed February 2012



ALICE Associate Membership

Awesome computer power:



One of the most important parts:

DETECTORS

Layers of detectors

The task of the ALICE detectors is to intercept all particles produced. The collision point is surrounded with successive cylindrical detector layers. Each layer is specialized in a specific task: to mark the time and the point of passage of particles or the energy they give off. The detectors thus sample the trajectory of each particle.

The magnetic field

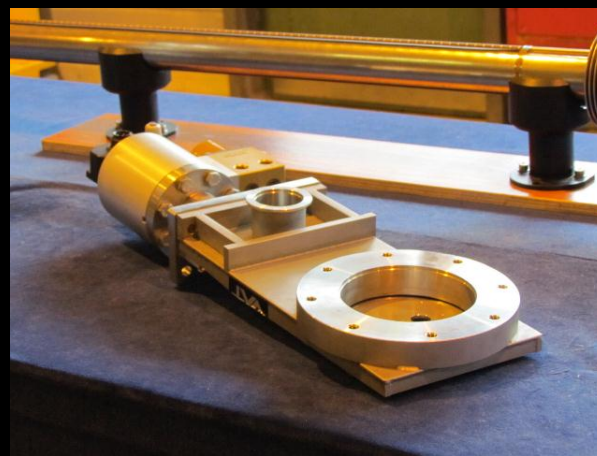
The detectors are immersed in a uniform magnetic field, generated by an enormous solenoid electromagnet that curves the trajectory of charged particles.

ALICE reveals particles' identity

The direction of the curve of the trajectory allows the electric charge of the particle to be deduced. The amplitude of the curve measures the momentum of the particle. The mass of a particle can be determined by combining its momentum with the time it takes to travel a certain distance. The particle can thus be identified by its electrical charge and its mass.



Some of them from China, India and the others. Would it'll be some from Thailand in the near FUTURE?



Thank you for your kind attention.



Please visit our website www.sut.ac.th for more detail information.