



# Overview of activities in Thailand

Chinorat Kobdaj 16 June 2014

> w.sut.ac.th Suranaree University of Technology

# Her Royal Highness Princess Maha



#### 18 May 2000 DELPHI



16 March 2009 CMS Detector, LHC



9 Dec 2003 RSIS: Role of



13th April 2010 LHC Briefing

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25<sup>th</sup> December 2009 The Thai-CERN subcommittee delegates from universities and related research org has been appointed and chaired by Prof. Pairash Th





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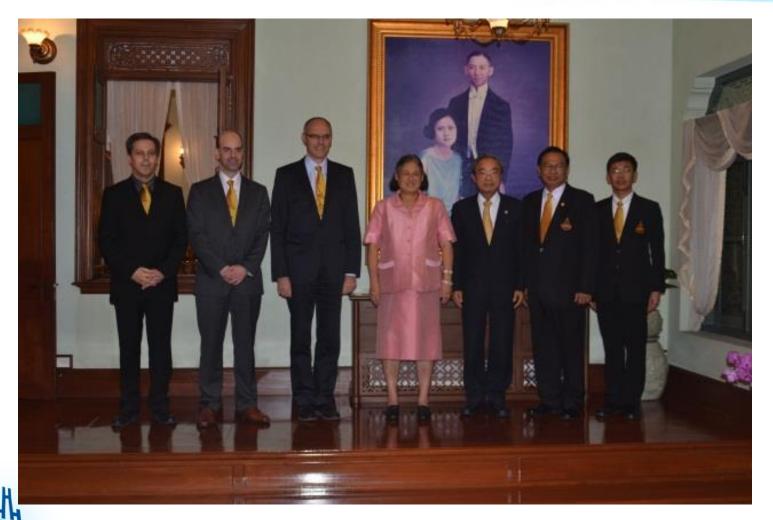
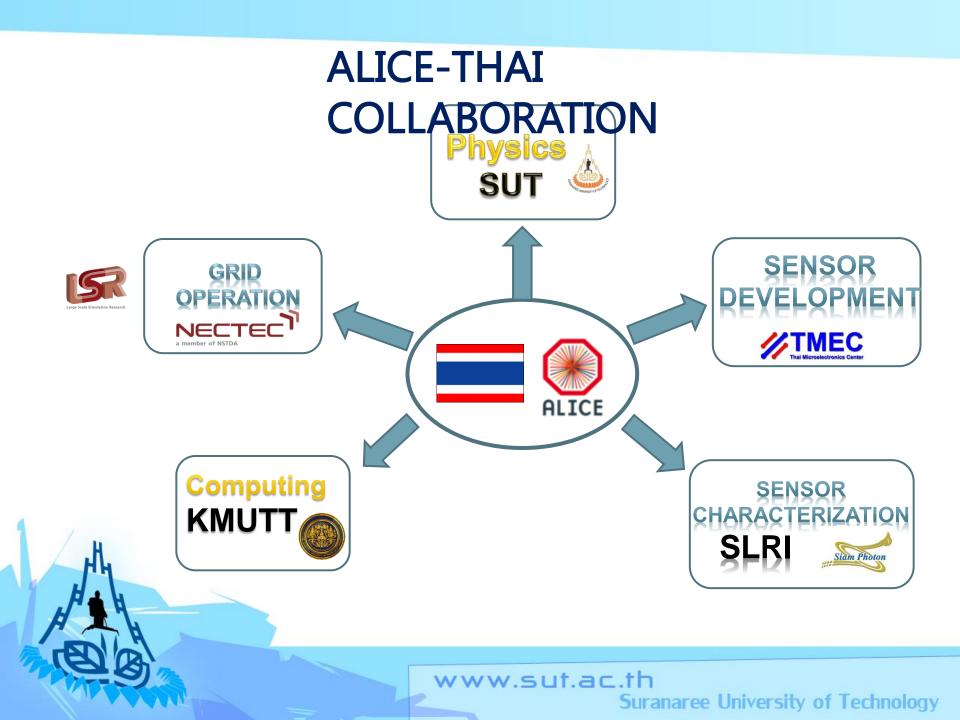


Photo taken at Sra Patum Palace on December 13, 20

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# Thailand participates in ITS upgrade as a consortium effort



- Suranaree University of Technology (SUT)
  - Geometry of the beam pipe and the inner barrel of ITS
  - Physics Analysis of HyperNuclei and  $\Lambda_{\rm c}$
  - Tier 2 GRID site
- Thailand National Electronics and Computer Technology Center (NECTEC)
  - GRID Operation
- King Mongkut's University of Technology Thonburi (KMUTT)
  - Online-Offline operation (O<sup>2</sup>)

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**MEC** • Thai Microelectronics Center (TMEC)

- High resistivity wafer
- Dummy chip
- Silicon Micro-channel cooling
- Thinning and laser dicing
- Synchrotron Light Research **Institute (SLRI)** 
  - Characterization of prototype pixel chips using 1 GeV electron beam

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# SUT contributions on ITS Upgrade



- Suranaree University of Technology (SUT)
  - Geometry of the beam pipe (Mr. Navadecho Chankhunthod)
  - Geometry of the inner barrel of ITS (Mr. Wanchaloem Poonsawat)
  - Geometry of the service barrel (Mr. Parinya Namwongsa)
  - Physics analysis of hyperNuclei (Mr. Natthapon Somparn)
  - Poonsawat





### **Creating the Geometry of Service Barrel**

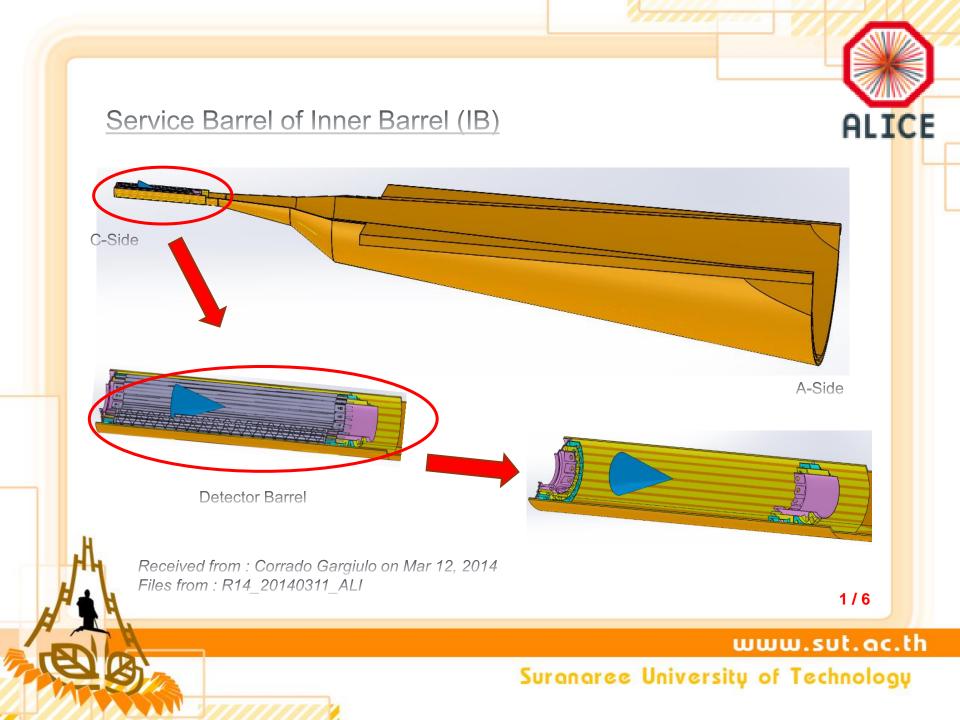
Parinya Namwongsa, Wanchalerm Poonsawat and Chinorat Kobdaj

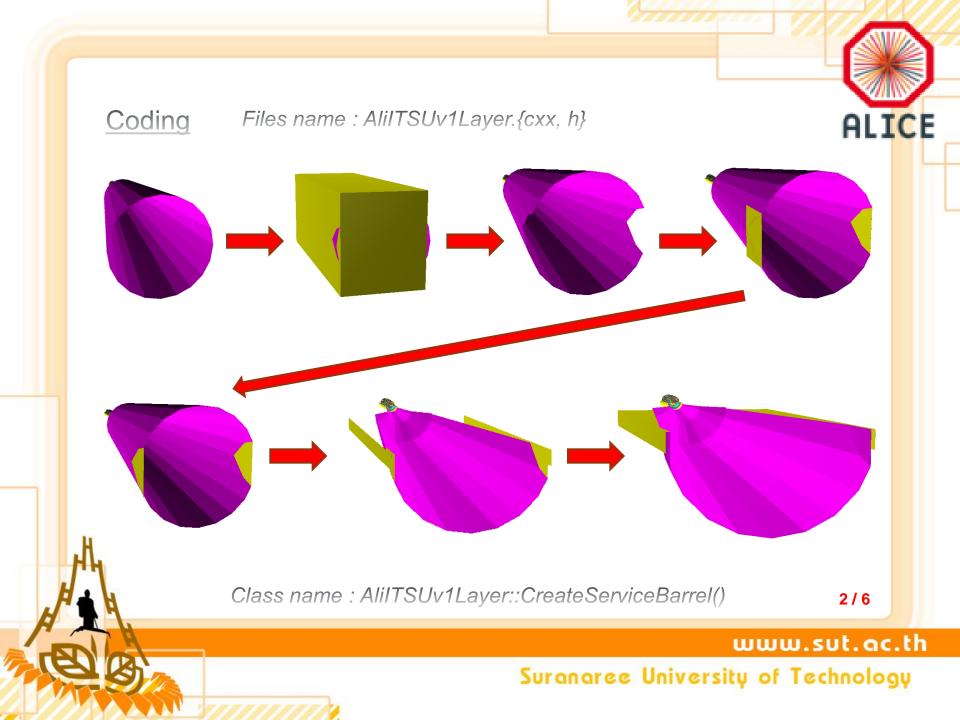
Suranaree University of Technology, Thailand

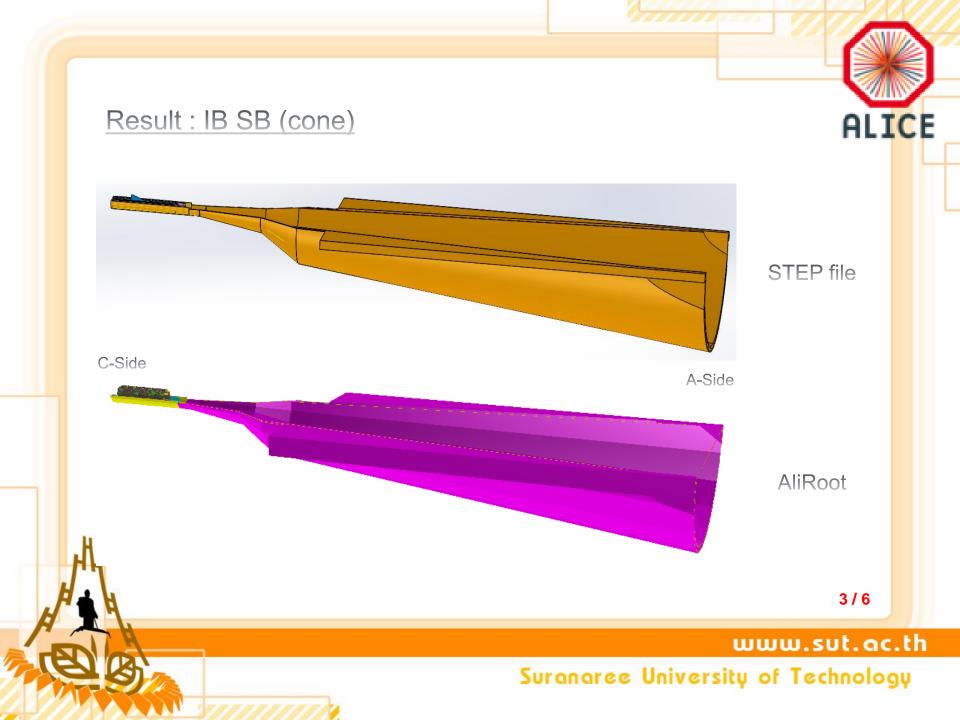
June 16, 2014

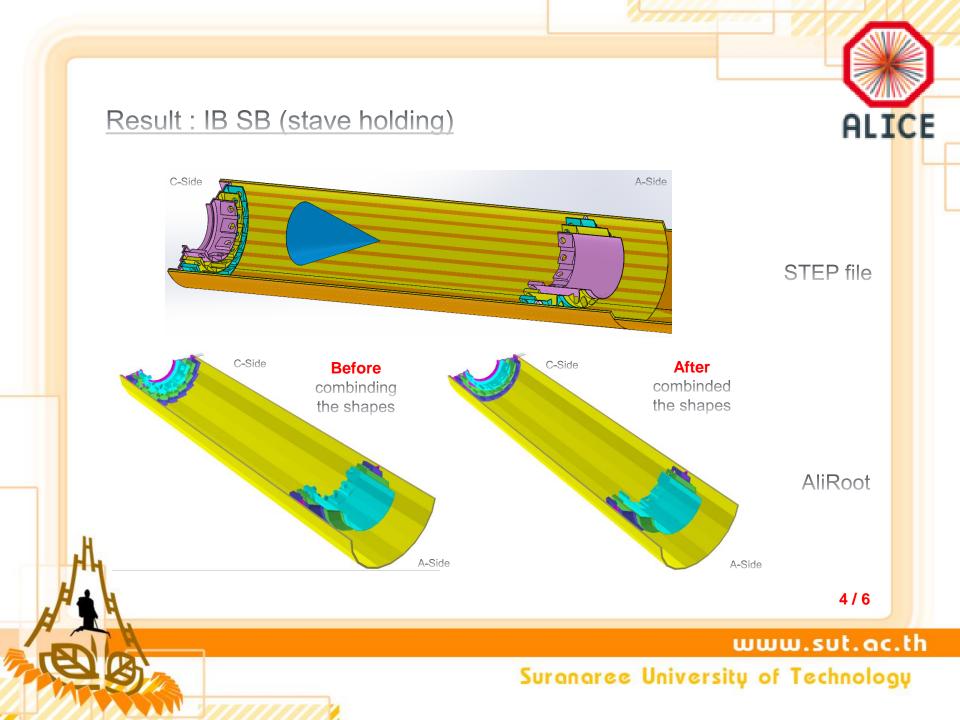
ALICE ITS Upgrade and C2 Asian Workshop 2014@THAILAND, June 16-18, 2014,, Centara Anda Dhevi Resoft and Spa, Krabi, Thailand

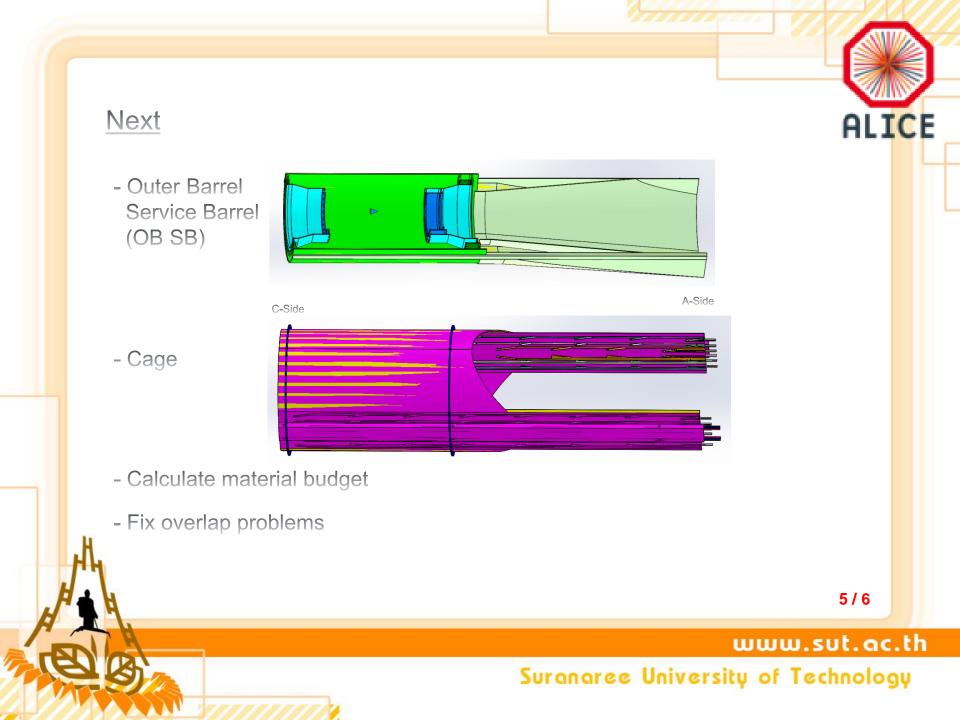
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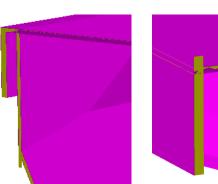




#### Remarks

- Fragment in complicated shape.

- Fragment in cutting edge.



\* These problems waiting for response from Mario.

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ALICE

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# Thank you for your attention

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ALICE