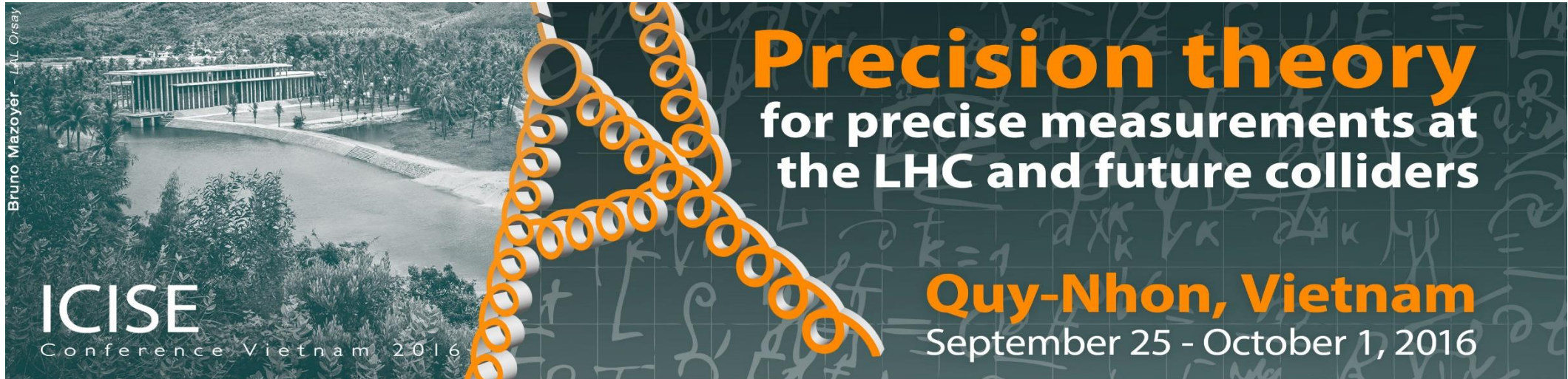


Welcome from the Programme Committee

A banner for the ICISE Conference Vietnam 2016. The background is a dark blue grid with faint mathematical symbols. On the left, there is a photograph of a modern building with a curved facade and a pool, surrounded by lush greenery and palm trees. A vertical text on the far left reads 'Bruno Mazoyer - LAL Orsay'. The main text is in orange and white: 'Precision theory for precise measurements at the LHC and future colliders'. Below this, it says 'Quy-Nhon, Vietnam' and 'September 25 - October 1, 2016'. In the bottom left corner, 'ICISE' is written in large white letters, with 'Conference Vietnam 2016' underneath. A large, stylized orange and white helix structure is positioned in the center-right of the banner.

Bruno Mazoyer - LAL Orsay

Precision theory
for precise measurements at
the LHC and future colliders

Quy-Nhon, Vietnam
September 25 - October 1, 2016

ICISE
Conference Vietnam 2016

The harvest of results of Run 1 at LHC

The scientific output of Run 1 of LHC at CERN is undoubtedly very rich and diverse

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→ The discovery of the Higgs boson, corner stone of the Standard Model
One of the greatest scientific steps.



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- The first measurements at high energies of fundamental quantities allowing to probe further the validity of the SM predictions
- Some of these studies require the patient and precise work of a swiss clockmaker and they are still ongoing
- No signs of new physic

Two years ago : first meeting

PHYSICS AT LHC AND BEYOND
August 10-17, 2014, ICISE Center, Quy-Nhon, Vietnam

Legacy of Run1: machine, experiments and theory
Readiness of ATLAS, CMS and LHCb for the next Run
Future upgrades
Future machines: HL-LHC, e^e and pp colliders
Standard Model physics and beyond
Prospects for the Scalar Sector
Theory challenges

International Advisory Committee:
Roy Aleksan (CERN), Roy Anderson (CERN), Elisabetta Barberio (CERN), Alberto Basso (CERN), Alan Bonduri (CERN), Patrick Campagne (CERN), David Charlton (CERN), Albert De Benedetti (CERN), Louis Fayard (CERN), Tim Gershon (CERN), Jon Incandella (CERN), Stan J. Linde (CERN), Francois Le Diberder (CERN), Luca Malgeri (CERN), Chiara Marletta (CERN), Bruce Mellado (CERN), Bill Murray (CERN), Steve Myers (CERN), Leonardo Niatti (CERN), Gert Rikun (CERN), Laurent Serin (CERN), Ian Shipsey (CERN), Yves Sirois (CERN), Pierre Spichiger (CERN), Arthur Tanaka (CERN), Reo Takahashi (CERN), Wolfgang Verkerke (CERN).

Scientific Program Committee:
Phil Adcox (CERN), Patricia Azzam (CERN), Florian Baumbach (CERN), Marcela Carena (CERN), Jack Kao-Rang Chen (CERN), Daniel Froidevaux (CERN), Jie Gao (CERN), Federico Glisenti (CERN), Christophe Grojean (CERN), Kengo Higashida (CERN), Olivier Huquet (CERN), Lydie Jonkhans-Fayard (CERN), Rafi Jaisakul (CERN), Patrick Janot (CERN), Frank Krauss (CERN), Sandrine Laplace (CERN), Marjan Malaver (CERN), Emmanuelle Perle (CERN), Tilmann Plehn (CERN), Patricia Robbe (CERN), Junichi Tanaka (CERN), Jean Tran Thanh Van (CERN), Frank Wulkenhaar (CERN).

Local Organizing Committee:
Dang Thi Nhung (ICISE), Le Don Nhat (ICISE), Nguyen Minh Phuong (ICISE), Nguyen Thi Hong Van (ICISE), Tran Huong Lan (ICISE), Tran Minh Hieu (ICISE), Tran Ngoc Tam (ICISE), Tran Thanh Son (ICISE).

<http://events.lal.in2p3.fr/Physics-LHC-2014/>

Two years ago : first meeting



GOALS

Legacy of Run1: machine, experiments and theory
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Two years ago : first meeting



Xth RENCONTRES DU VIETNAM : PHYSICS AT LHC AND BEYOND
QUY NHON - VIET NAM August 10 -17, 2014

Quy-Nhon, September 25-October 1st 2016

This year : Second meeting on LHC physics

Precision theory
for precise measurements at
the LHC and future colliders

ICISE
Quy-Nhon, Vietnam
September 25 - October 1, 2016

Precision challenges in theory for data analyses
at the LHC and at Future Colliders

- Higgs boson production and properties
- Electroweak measurements
- Top quark physics
- Heavy flavour physics
- PDFs

International Advisory Committee

Shoji Asai (Tokyo)
Ignacio Atar (Bologna)
Alan Bondi (Geneva)
Maurine Bonzano (Birmingham)
Andrzej Bury (Munich)
Luisa Di Stefano (CERN)
Dave Charlton (Birmingham/CERN)
Ines Capelli (Southampton)
Lance Dixon (SLAC)
Thomas Dreyer (Heidelberg)
Neil Glover (Durham)
Robert Grobner (India)
Gunter Hahn (Munich/Heidelberg/EPFL/CFA)
Mariusz Heide (LA)
Marta Krawczyk (Warsaw)
Renata Le Guir (CPAF)
Lucia Malgeri (CERN)
Nicolangelo Martinelli (CERN)
William Murray (Warwick)
Paul Schaus (Birmingham/CERN)
Giovanni Tarron (Milano/INFN)
Feng Wang (LIPSI Beijing)
Guy Wilkinson (Oxford/CERN)
Peter Zappenzell (Paris/Heidelberg)

Scientific Program Committee

Bodo Breitner (ETH Zurich)
Madelon Hoppekamp (HKL/J. JAY)
Kai Inoue (Shanghai)
Louis Feyand (LAL-Orsay)
Tim Gehrmann (Warwick)
Christophe Englert (ILIASy)
Mikolaj Hejblum (LIPSI)
Shih-Hao Heinrich (DESY)
Lydia Isomiridou (LIPSI/EPFL/CPAF)
Karl Jakobs (Heidelberg)
Patrick Janas (CERN)
Alex Milov (Cambridge)
Maurice Myhring (CERN)
Almendra Nisut (INFN and Roma 1)
Sven Heinke (Cambridge)
Doreen Wackerath (Bonn)

Conference Vietnam 2016
<http://cn.congresdುವietnam.org/conferences/2016/precision-theory/>

Run 2 started !

LHC at 13 TeV : amazing performances

→ Expect $\sim > 100 \text{ fb}^{-1}$ end of 2018

and $\sim 300 \text{ fb}^{-1}$ by 2022 for ATLAS/CMS

→ $\sim 6 \text{ fb}^{-1}(21)$ for LHCb by end 2018/2022

→ Theory often the limiting factor

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Ralf Kalweit (Munich)
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Maurice Hies (LA)
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Luca Malgeri (CERN)
Nicolangelo Martinelli (CERN)
William Murray (Warsaw)
Pablo Pascual (Madrid/CERN)
Giovanni Passarino (Milano/CERN)
Yifeng Wang (LIPSI Beijing)
Guy Wilkinson (Oxford/CERN)
Dietmar Zappenfeld (Paris/Heidelberg)

Scientific Program Committee
Bodo Aebischer (ETH Zurich)
Madelon Hoppekamp (Hamburg/FAU)
Kai Inoue (Cheng Tsung)
Louis Feyand (LAL-Orsay)
Tim Gehrmann (Warsaw)
Christophe Englert (ILIAS)
Mikolaj Hejblum (Geneva)
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Lydia Isgrig (LIPSI Beijing)
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Maximilian Mühlbauer (CERN)
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→ Theory often the limiting factor

Main core : discussion on theory limitations
and plans to overcome, achieving
high precision at LHC and beyond

The programme

**Constructed around five topics
PDFs, HF, Precision Physics, Top, Higgs.**

Emphasis on Theoretical obstacles, and the main experimental results
Prospects for Physics at with higher statistics at LHC and future colliders

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5 Plenary sessions

Each one is closed by a Wrap-up slot where the Chair reviews the hot
points and triggers the discussion on the most critical topics.

+ 2 General ones on Basics

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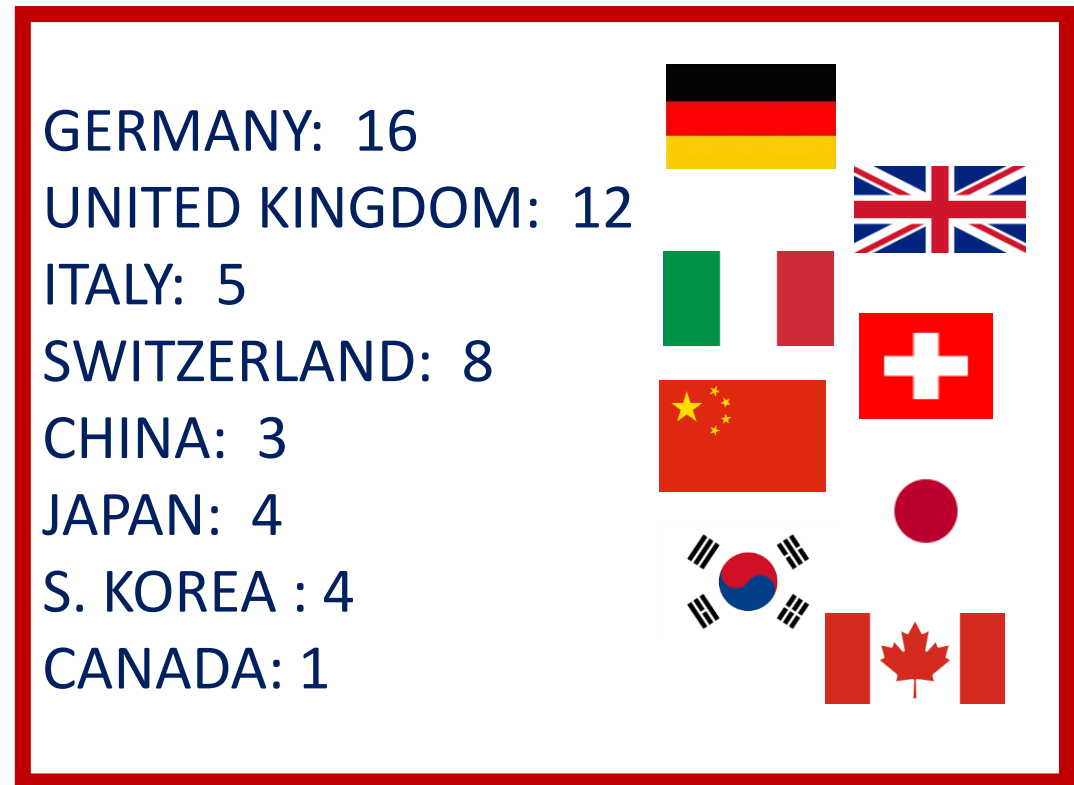
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+ 2 General ones on Basics

Keep an afternoon for 5 parallel sessions

Going deeper in particular topics
Allow plenty of exchanges among experts
Encourage younger people to participate

Speaker's affiliation : geographical diversity



Speaker's nationalities: even more !

Palestine



Russia



Cyprus



Vietnam



Sweden



Greece



Lithuania



South-Africa



Andorra



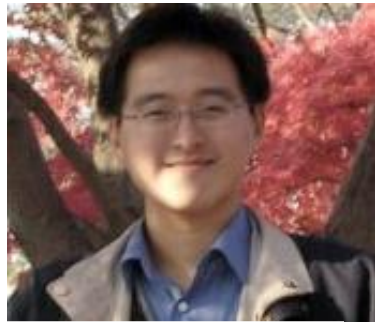
The Committees

The Programme Committee

- Seven theorists with in-depth expertise on the discussed topics
- Nine experimentalists from the 3 LHC collaborations



Babis



Jack



Martijn



Uli



Alex



Maarten



Louis



Leandro



Doreen



Christophe



Lydia



Patrick



Maria



Tim



Karl



Shoji

Members of the PC present at Quy-Nhon



Maria Ubiali
Chairing PDF
sessions



Marteen
Boonekamp
Chairing
Precision
Physics sessions



Louis Fayard
Chairing Higgs
Sessions



Martijn Mulders
Chairing Top
Sessions



Shoji Hashimoto
Chairing HF
Sessions



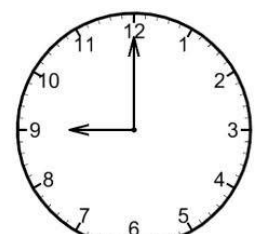
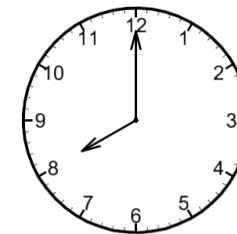
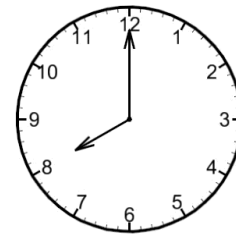
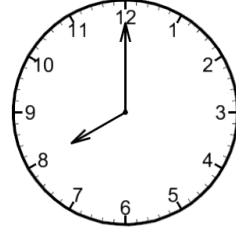
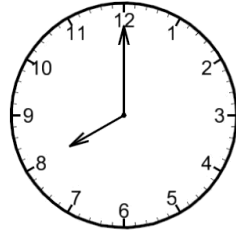
Lydia I-Fayard
Chairing Opening
and Basic
Sessions

The International Advisory Committee

- High profile theorists, experimentalists and LHC collaboration's management.
- World-wide lab's representation

Many thanks for their advises and help!





Monday
Morning

Opening Session

Tuesday
Morning

Basics of
Everything

Wednesday
Morning

Precision
Physics Session

Thursday
Morning

Top Session

Friday
Morning

Higgs Seeion

Saturday
Morning

Summaries

Monday
Afternoon

Parallel Sessions

Tuesday
Afternoon

PDF session

Wednesday
Afternoon

Visits

Thursday
Afternoon

Higgs Session

Friday
Afternoon

Heavy Flavours
Session

Finally..

→ You can contact the Committee members whenever you want.

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- You can contact the Committee members whenever you want.
- Aimie and Maryvonne will answer to all your administrative questions



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We count on you for asking questions
and animate the sessions !

Have a good time to Quy-Nhon
thanks for coming and
Enjoy the Conference !