

GCOE 国際会議 報告書

2012年 12月 25日

文責：氏名 石野雅也

開催会議名：Hadron Collider Physics Symposium 2012

開催日時：2012年11月12日 ～ 2012年11月16日

開催場所：京都大学百周年時計台記念館

主催：京都大学、(東京大学、高エネルギー加速器研究機構 共催)

後援：

実行委員会メンバー：

石野雅也 (京都大学・准教授)

浅井祥仁 (東京大学・准教授)

花垣和則 (大阪大学・准教授)

長野邦浩 (高エネルギー加速器研究機構・准教授)

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受川史彦 (筑波大学・教授)

山崎祐司 (神戸大学・准教授)

参加者数 (合計 231 名)：内訳を必ず下記へ記入のこと

オーストラリア (3名)

オーストリア (1名)

ベルギー (4名)

カナダ (7名)

チェコスロヴァキア (2名)

中国 (5名)

デンマーク (4名)

フランス（８名）
ドイツ（２２名）
ギリシャ（１名）
オランダ（１名）
インド（１名）
イタリア（１８名）
日本（５５名）
韓国（３名）
ポルトガル（１名）
ロシア（１名）
スロヴェニア（２名）
スウェーデン（６名）
スイス（２８名）
台湾（３名）
イギリス（１３名）
アメリカ（４１名）

主な招待講演者：氏名 所属 出身国

招待公演はなし。

会議の意義、内容、成果等の概要

今回、23回目の開催となる、Hadron Collider Physics Symposiumを京都大学の百周年時計台記念館で開催した。ハドロンコライダーによる実験結果、主にシカゴのTevatron加速器と、GeneveのLHC加速器によって実現される世界最高エネルギー、7 TeV(2010年、2011年)・8 TeV(2012年)での陽子衝突データの解析結果を持ちよった。Tevatron加速器の運転は2011年に終了しており、今回、発表された物理結果は、Tevatronの運転期間に取得されたすべてのデータを使用したものが多く発表された。LHC実験からのデータは、

- 2011年までに取得したすべてのデータを使って素粒子の標準模型をチェックする物理結果、
- 2012年夏までのデータを追加してヒッグス粒子のフェルミオンへの崩壊 (b-quark, tau-lepton)への崩壊の検討、Higgs粒子のスピン等、7月に発見されたヒッグス-likeな粒子についての最新結果
- 2012年夏までのデータを(一部)追加しての、新粒子探索に関する結果等が報告された。

特にHiggs粒子については、2つの独立した実験グループ(ATLAS、CMS)から、解析の詳細に至るまでの発表がパラレルセッションであり、両者の結果のちがいに關する検討、システムティックエラーのつけかたについての細かいが重要な議論など、非常に有意義なディスカッションをおこなうことができた。

また、LHC実験におけるもうひとつの別の実験、LHC b グループからB-ハドロン稀崩壊現象に關する測定結果 ($B_s \rightarrow 2\mu$) が報告された。過去、数十年にわたり、多くの実験で探索されてきた崩壊モードで、ある超対称性模型のパラメーター空間においては、この崩壊比が大きくなるために新物理に対する感度があるモードとして非常に注目されていた。今回の会議で、その値が標準模型の計算結果とコンシステントであるという、世界ではじめての重要な結果が発表された。

これらの新しい実験結果をうけて、理論屋からの新しいモデルの提唱、過去のモデルの整理、今後、どのようなアプローチで実験結果をながめていくべきか、等、多くのコメント・議論があり、ヒッグス粒子発見後のあたらしい素粒子物理学の幕開けにふさわしい、有意義な会議を開催することができた。

Hadron Collider Physics Symposium 2012 - Plenary session

from Sunday 11 November 2012 at **15:00** to Friday 16 November 2012 at **21:50** (Asia/Tokyo)
at Kyoto University

Description Conference webpage: <http://www.icepp.s.u-tokyo.ac.jp/hcp2012/>

[Go to day](#)

Sunday 11 November 2012

17:00 - 19:00 Welcome Drink

Monday 12 November 2012

09:20 - 10:20 Opening Session

Convener: Katsuo Tokushuku (KEK)

09:20 **Welcome & Information** 10'

Speaker: Masaya , HCP_LOC

Material: [Slides](#) 

09:30 **The HCP Symposium and Hadron Collider Physics** 20'

Speaker: Dmitry Denisov (FNAL)

Material: [Slides](#) 

09:50 **Keynote talk** 30'

Speaker: Joseph Lykken (FNAL)

Material: [Slides](#) 

10:20 - 10:50 **Coffee Break**

10:50 - 12:55 **soft QCD and Heavy-Ion (1/2)**

Convener: Katsuo Tokushuku (KEK)

10:50 **Theory** 25'

Speaker: Tetsufumi Hirano (Sophia Univ.)

Material: [Slides](#) 

11:15 **ALICE detector status and upgrade plans** 25'

Speaker: Ken OYAMA

Material: [Slides](#) 

11:40 **ALICE physics summary** 25'

Speaker: Roberto Preghenella

Material: [Slides](#) 

12:05 **Soft QCD (ALICE+ATLAS+CMS+Tevatron)** 25'

Speaker: Craig Buttar (Glasgow)

Material: [Slides](#) 

12:30 **TOTEM physics summary** 25'

Speaker: Giuseppe Latino (Univ. of Siena, INFN Pisa)

Material: [Slides](#) 

12:55 - 14:15 **Lunch**

14:15 - 15:05 **soft QCD and Heavy-Ion (2/2)**

Convener: George Hou (National Taiwan Univ.)

14:15 **Heavy Ion (ATLAS+CMS)** 25'

Speaker: Camelia Mironov (LLR, Ecole Polytech.)

Material: [Slides](#) 

14:40 **Heavy Ion (RHIC)** 25'

Speaker: Shinichi ESUMI (Tsukuba)

Material: [Slides](#) 









15:05 - 16:25 **Heavy Flavor (1/2)**

Convener: George Hou (National Taiwan Univ.)










15:05 **LHCb detector status (+ upgrade)** 25'




Speaker: Oliver Callot (Orsay)

Material: [Slides](#)  












- 15:30 **LHCb physics summary 40'**
 Speaker: Burkhard Schmidt (CERN)
 Material: [Slides](#) 
- 16:10 **New results on the search for B(s)->mu+mu- from LHCb 15'**
 Speaker: Johannes Albrecht (CERN)
 Material: [Slides](#) 
- 16:25 - 16:55 **Coffee Break**
- 16:55 - 19:00 **Heavy Flavor (2/2)**
 Convener: George Hou (National Taiwan Univ.)
- 16:55 **CP violation (ATLAS+CMS+Tevatron) 25'**
 Speaker: Mark Williams
 Material: [Slides](#) 
- 17:20 **Rare decay (ATLAS+CMS+Tevatron) 25'**
 Speaker: Vincenzo Chiochia (Univ. Zurich)
 Material: [Slides](#) 
- 17:45 **Production of B (ATLAS+CMS+Tevatron) 25'**
 Speaker: Pavel Reznicek (Munich, LMU)
 Material: [Slides](#) 
- 18:10 **Charm (ATLAS+CMS+Tevatron) 25'**
 Speaker: Marco Rescigno (INFN, Rome1)
 Material: [Slides](#)  
- 18:35 **Theory 25'**
 Speaker: Gino Isidori
 Material: [Slides](#) 

Tuesday 13 November 2012

- 09:20 - 11:00 **Top (1/2)**
 Convener: Daniel Froidevaux (CERN)
- 09:20 **Production cross-section (ATLAS+CMS+Tevatron) 25'**
 Speaker: Frank-Peter Schilling (Karlsruhe Institute of Technology (KIT))
 Material: [Slides](#) 
- 09:45 **Theory : Production 25'**
 Speaker: Mitov Alexander (CERN)
 Material: [Slides](#) 
- 10:10 **Mass measurement (ATLAS+CMS+Tevatron) 25'**
 Speaker: Jose Enrique Palencia Cortezon (CERN)
 Material: [Slides](#) 
- 10:35 **single-top cross-section (ATLAS+CMS+Tevatron) 25'**
 Speaker: Giorgio Chiarelli (INFN, Pisa)
 Material: [Slides](#) 
- 11:00 - 11:30 **Coffee Break**
- 11:30 - 13:10 **Exotics**
 Convener: Daniel Froidevaux (CERN)
- 11:30 **Resonance (ATLAS+CMS+Tevatron) 25'**
 Speaker: John Parsons (Columbia)
 Material: [Slides](#)  
- 11:55 **non-resonance with Lepton (ATLAS+CMS+Tevatron) 25'**
 Speaker: Donghee Kim (Kyungpook Univ.)
 Material: [Slides](#) 
- 12:20 **non resonance without Lepton (ATLAS+CMS+Tevatron) 25'**
 Speaker: Amitabn Lath -> Dan Duggan
 Material: [Slides](#) 
- 12:45 **Exotics (in a Higgs world): theory review 25'**
 Speaker: Christophe Grojean
 Material: [Slides](#) 

- 13:10 - 14:30 **Lunch**
- 14:30 - 19:00 **Parallel_C : QCD & Heavy-Ion**
Location: Room-3 (upstairs)
Material: [agenda](#) 
- 14:30 - 19:00 **Parallel_B : Top**
Location: Room-2 (upstairs)
Material: [agenda](#) 
- 14:30 - 19:00 **Parallel_A : SUSY & Exotic**
Location: Central Hall
Material: [agenda](#) 

Wednesday 14 November 2012

- 09:20 - 11:00 **QCD**
Convener: Elisabetta Gallo (INFN Firenze)
- 09:20 **Theory : JET 25'**
Speaker: Michelangelo Mangano (CERN)
Material: [Slides](#) 
- 09:45 **JET production and properties (ATLAS+CMS+Tevatron) 25'**
Speaker: Jonathan Butterworth (London UC)
Material: [Slides](#) 
- 10:10 **HERA : PDF 25'**
Speaker: Enrico Tassi
Material: [Slides](#) 
- 10:35 **V + JET (ATLAS+CMS+Tevatron) 25'**
Speaker: Monica Dunford (Heidelberg)
Material: [Slides](#) 
- 11:00 - 11:30 **Coffee Break**
- 11:30 - 13:10 **Top (2/2)**
Convener: Elisabetta Gallo (INFN Firenze)
- 11:30 **Theory : Top properties / Exotics 25'**
Speaker: Jernej Kamenik
Material: [Slides](#) 
- 11:55 **W-helicity , spin , charge (ATLAS+CMS+Tevatron) 25'**
Speaker: Elizaveta Shabalina (Goettingen)
Material: [Slides](#) 
- 12:20 **exotic top production and decay, FCNC, t' , b' , resonance (ATLAS+CMS+Tevatron) 25'**
Speaker: Bernd Stelzer (Simon Fraser Burnaby)
Material: [Slides](#) 
- 12:45 **Forward-backward asymmetry in ttbar production (ATLAS+CMS+Tevatron) 25'**
Speaker: Regina Demina
Material: [Slides](#) 
- 13:10 - 14:30 **Lunch**
- 14:30 - 19:00 **Parallel_D : Higgs**
Location: Central Hall
Material: [agenda](#) 
- 14:30 - 19:00 **Parallel_F : Electro-Weak**
Location: Room-3 (upstairs)
Material: [agenda](#) 
- 14:30 - 19:00 **Parallel_E : Heavy Flavor**
Location: Room-2 (upstairs)
Material: [agenda](#) 

Thursday 15 November 2012

- 09:20 - 11:00 **Electro Weak**
Convener: Guido TONELLI (CERN and INFN, Pisa)

09:20 **W/Z production and Mass (ATLAS+CMS+Tevatron+LHCb)** 25'

Speaker: Oliver Stelzer-Chilton (TRIUMF)

Material: [Slides](#) 

09:45 **Di-Boson (ATLAS+CMS+Tevatron)** 25'

Speaker: Dave Evans (UC San Diego)

Material: [Slides](#) 

10:10 **Theory : Global-fit** 25'

Speaker: Kaoru Hagiwara (KEK , KIAS)

Material: [Slides](#) 

10:35 **Theory : MC** 25'

Speaker: Achilleas Lazopoulos

Material: [Slides](#) 

11:00 - 11:30 **Coffee Break**

11:30 - 12:50 **Higgs (1/2)**

Convener: Guido TONELLI (CERN and INFN, Pisa)

11:30 **Higgs (ATLAS)** 40'

Speaker: Kevin Einsweiler (LBNL)

Material: [Slides](#)  [Video](#) 

12:10 **Higgs (CMS)** 40'

Speaker: Christoph Paus (MIT)

Material: [Slides](#)  [Video](#) 

12:50 - 14:20 **Lunch**

14:20 - 16:20 **Higgs (2/2)**

Convener: Michelangelo Mangano (CERN)

14:20 **Higgs summary with Tevatron** 40'

Speaker: Aurelio Juste

Material: [Slides](#)  [Video](#) 

15:00 **Theory Questions for the Higgs Sector** 30'

Speaker: Tilman Plehn (Heidelberg University)

Material: [Slides](#)  [Video](#) 

15:30 **MSSM Higgs** 25'

Speaker: Stan Lai (Freiburg)

Material: [Slides](#)  [Video](#) 

15:55 **Non-SM Exotic Higgs** 25'

Speaker: Stefano Lacaprara (INFN Padova)

Material: [Slides](#)  [Video](#) 

16:20 - 17:50 **Poster (with Coffee)**

16:20 **Poster Session with Coffee** 1h30'

Material: [List of Posters](#) 

17:50 - 20:30 **Promenade & Conference Dinner**

Material: [Map \(Local\)](#)  [Map \(Wide area\)](#)  [Promenade to Ko-dai-ji Temple](#) 
[Restaurant WEB](#)  [slides](#) 

Friday 16 November 2012

09:20 - 11:00 **SUSY**

Convener: Gregorio Bernardi (LPNHE-Paris)

09:20 **search with Missing-ET (ATLAS+CMS+Tevatron)** 25'

Speaker: Brian Petersen (CERN)

Material: [Slides](#) 

09:45 **SUSY signature with Long-lived particles (ATLAS+CMS+Tevatron)** 25'

Speaker: Yunhe Xie (FNAL)

Material: [Slides](#) 

10:10 **EW production + degenerated SUSY (ATLAS+CMS+Tevatron)** 25'

Speaker: Richard Carl Gray (Rutgers Univ.)

Material: [Slides](#) 

10:35 **Theory** 25'
Speaker: Ryuichiro KITANO (Tohoku Univ.)
Material: [Slides](#) 


11:00 - 11:30


Coffee Break

11:30 - 13:10


Conclusion - Future (1/2)

Convener: Gregorio Bernardi (LPNHE-Paris)

11:30 **LHCf + high-energy cosmic-ray** 25'
Speaker: yoshitaka Itow (Nagoya Univ.)
Material: [Slides](#) 

11:55 **Super-KEKB and Super-B : flavor physics** 25'
Speaker: Peter Krizan
Material: [Slides](#) 

12:20 **CMS upgrade** 25'
Speaker: Joao Varela (LIP, Portugal)
Material: [Slides](#) 

12:45 **ATLAS upgrade** 25'
Speaker: Srinji Rajagopalan (BNL)
Material: [Slides](#) 


13:10 - 14:30


Lunch

14:30 - 16:20

Conclusion - Future (2/2)

Convener: Dmitri Denisov (FNAL)

14:30 **From HCP and PLHC to LHCP-2013 in Barcelona** 10'
Speaker: Gregorio Bernardi (LPNHE-Paris)
Material: [Slides](#) 

14:40 **Future plan (CERN)** 30'
Speaker: BERTOLUCCI Sergio (CERN)
Material: [Slides](#) 

15:10 **Future plan (KEK)** 30'
Speaker: Atsuto SUZUKI (KEK)
Material: [Slides](#) 














15:40 **Summary** 40'
Speaker: Michelangelo Mangano (CERN)
Material: [Slides](#) 

HCP2012 Parallel session - SUSY , Exotic

Tuesday 13 November 2012 from 14:30 to 19:05 (Asia/Tokyo)

Description conveners**Oliver Stelzer-Chilton (ATLAS)****Amitabh Lath (CMS)****Stephan Lammel (Tevatron , CDF)****Ryuichiro Kitano (Theory)**

Tuesday 13 November 2012

- 14:30 - 14:42 Rare decays of LHCb 12'
Speaker: Thomas Blake (CERN)
Material: [Slides](#) 
- 14:45 - 14:57 Searches for new physics at BaBar 12'
Speaker: Romulus Godang (University of South Alabama)
Material: [Slides](#) 
- 15:00 - 15:12 Searches in multi-jet final states at CMS 12'
Speaker: Daniel Duggan (Rutgers University, United States)
Material: [Slides](#) 
- 15:15 - 15:27 Searches for heavy resonance with the ATLAS detector 12'
Speaker: Noam Tal Hod (NIKHEF)
Material: [Slides](#) 
- 15:30 - 15:42 Search for a W' , contact interactions and lepton resonance at CMS 12'
Speaker: Arnaud Gay (Univ. Libre de Bruxelles)
Material: [Slides](#) 
- 15:45 - 15:57 Searches for New Physics with Tau Leptons at the ATLAS Detector 12'
Speaker: Katharine Loney (Witwatersrand)
Material: [Slides](#) 
- 16:00 - 16:12 Search for multi-lepton production in CMS 12'
Speaker: Matthew Hsing Hung Walker (Rutgers University, United States)
Material: [Slides](#) 
- 16:15 - 16:25 Search for direct supersymmetric gaugino at Atlas 10'
Speaker: Anders Floderus (Lund)
Material: [Slides](#) 
- 16:27 - 16:37 Search for chargino or neutralino production at CMS 10'
Speaker: Shruti Panwalkar (Rutgers University, United States)
Material: [Slides](#) 
- 16:40 - 16:52 Search for SUSY in events with taus and e, mu at CMS 12'
Speaker: Elias Ron Alvarez (DESY)
Material: [Slides](#) 
- 16:55 - 17:15 **Coffee Break**
- 17:15 - 17:25 Search for pair production of third gen squarks at ATLAS 10'
Speaker: Tom Barber (Freiburg)
Material: [Slides](#) 
- 17:27 - 17:37 Search for top and bottom squarks at CMS 10'
Speaker: Benjamin Henry Hooberman (FNAL)
Material: [Slides](#) 
- 17:40 - 17:52 Inclusive searches for squark and gluinos at ATLAS 12'
Speaker: Teng Jian Khoo (Cambridge)
Material: [Slides](#) 

17:55 - 18:07 Search for SUSY resonance prod, R_P, long-lived at ATLAS 12'

Speaker: Shingo Kazama (ICEPP Tokyo)

Material: [Slides](#) 

18:10 - 18:20 Search for SUSY in final states with photons at CMS 10'

Speaker: Eleni Ntomari (Inst. of Nucl. Phys. "Demokritos", Greece)

Material: [Slides](#) 

18:22 - 18:32 Search for monojets and monophotons with Atlas 10'

Speaker: Reyhaneh Rezvani (Toronto)

Material: [Slides](#) 

18:35 - 18:47 Pure gravity mediation of supersymmetry breaking 12'

Evidence is mounting that natural supersymmetry at the weak scale is not realized in nature. This evidence comes from collider searches, a lack of new flavor changing neutral current effects, and now also the size of the measured Higgs mass. On the other hand,

string theory suggests that supersymmetry may be present at some energy scale, and gauge coupling unification and dark matter imply that that energy scale may be relatively low. The simplest model to address all of these hints may be pure gravity mediation, in which the scalar superpartner masses are taken to be perhaps 100 TeV, with gauginos automatically acquiring loop factor suppressed masses of order TeV. The gauginos may then be the only superpartners accessible to the LHC. Unification and LSP dark matter are maintained (with a wino LSP) at the cost of a 10^{-5} or 10^{-6} fine tuning.

In my talk I will review the phenomenology of pure gravity mediation, as well as discuss some new work which attempts to address the puzzle of why nature might have chosen an almost- but not completely- natural weak scale.

Speaker: Brian Feldstein

Material: [Slides](#) 

18:50 - 19:05 Minimal Dilaton Model 15'

We construct a minimal calculable model of a light dilaton based on the scenario where only top and Higgs sectors are involved in a quasi scale invariant dynamics. The model consistently accommodate the electroweak precision tests even when the Higgs boson is very heavy, thereby allows one to consider a possibility that the particle at around 125GeV, discovered at the LHC experiments, is identified as the light dilaton rather than the Higgs boson. We find that the current LHC data allow distinct parameter regions where the observed particle is either mostly the Higgs boson or the dilaton.

Speaker: Kin-ya Oda

Material: [Slides](#) 

HCP2012 Parallel session - Top

Tuesday 13 November 2012 from **14:30** to **19:05** (Asia/Tokyo)

Description conveners














Jean-Francois Arguin (ATLAS)

Andreas Meyer (CMS)

Homer Wolfe (Tevatron)

Alexander Mitov (Theory)

Tuesday 13 November 2012

- 14:30 - 14:47 MC generators and the top quark forward-backward asymmetry 17'
 Speaker: Jan Winter
 Material: [Slides](#) 
- 14:47 - 15:04 Top pair production distributions at the Tevatron (includes Afb, differential cross sections) 17'
 Speaker: Yuji TAKEUCHI (Tsukuba)
 Material: [Slides](#) 
- 15:04 - 15:23 Top pair production at CMS (includes charge asymmetry and ttbar resonance) 19'
 Speaker: Benjamin Klein (Ghent Univ., Belgium)
 Material: [Slides](#) 
- 15:23 - 15:42 Top pair production at ATLAS (includes charge asymmetry and ttbar resonance) 19'
 Speaker: Andrey Loginov (Yale)
 Material: [Slides](#)  
- 15:42 - 15:59 Top Forward-backward asymmetry at the Tevatron vs. Charge asymmetry at the LHC in chiral U(1)' models with flavored Higgs fields 17'
 Speaker: Pyungwon Ko
 Material: [Slides](#) 
- 15:59 - 16:20 **Coffee Break**
- 16:20 - 16:37 Top quark properties at the Tevatron 17'
 Speaker: Hyun Su Lee
 Material: [Slides](#) 
- 16:37 - 16:54 Top polarization from boosted jet substructure 17'
 Speaker: Sourav K. Mandal
 Material: [Slides](#) 
- 16:54 - 17:13 Top properties in ttbar events at ATLAS (includes mass) 19'
 Speaker: Stefan Guindon (Goettingen)
 Material: [Slides](#) 
- 17:13 - 17:32 Top properties in ttbar events at CMS (includes mass) 19'
 Speaker: Volker Adler (Ghent Univ., Belgium)
 Material: [Slides](#) 
- 17:32 - 17:50 **Coffee Break**
- 17:50 - 18:05 Probing non-standard top-quark couplings via optimal-observable analyses at LHC 15'
 Speaker: Kazumasa Ohkuma
 Material: [Slides](#) 
- 18:05 - 18:20 Single-top physics at CMS 15'
 Speaker: Jeannine Wagner-Kuhr (Karlsruhe Institute of Technology, Germany)
 Material: [Slides](#) 
- 18:20 - 18:35 Single-top physics at ATLAS 15'
 Speaker: Annick Lleres (Grenoble LPSC)
 Material: [Slides](#) 

18:35 - 18:50 Inclusive top-quark cross section measurements and BSM Searches at the Tevatron 15'

Speaker: Regina Demina

Material: [Slides](#) 

18:50 - 19:05 Top-pair production in hadron collisions at NNLL 15'

Speaker: Jan Piclum

Material: [Slides](#) 





HCP2012 Parallel session - QCD , Heavy-Ion

Tuesday 13 November 2012 from **14:30** to **19:25** (Asia/Tokyo)

Description conveners :

- Oldrich Kepka (ATLAS)
- Camelia Mironov (CMS)
- Dmitry Bandurin (Tevatron , D0)

Tuesday 13 November 2012

- 14:30 - 14:55 **Diffraction and exclusive production (HERA and LHC), 20+5 25'**
ATLAS measurements of diffraction and forward energy flow – part of the abstract on diffraction
Exclusive and diffractive physics results from CMS
Combined inclusive diffractive cross sections measured with forward proton spectrometers at HERA
- Speaker: Elisabetta Gallo (HERA)
 Material: [Slides](#) 
- 14:55 - 15:10 **Studies of soft QCD at LHCb, (12+3) 15'**
Studies of soft QCD at LHCb
- Speaker: Andrea Contu (Cagliari)
 Material: [Slides](#) 
- 15:10 - 15:35 **Soft particle production and energy flow at the LHC, 20+5 25'**
Soft particle production and underlying events in ATLAS
Soft and semi-hard QCD dynamics at CMS – part of the abstract (ii, iii)
ATLAS measurements of diffraction and forward energy flow – second part of the abstract on forward energy flow
- Speaker: Wynne Benjamin (Edinburgh from ATLAS)
 Material: [Slides](#) 
- 15:35 - 16:00 **Underlying event and DPI scattering at the LHC, 20+5 25'**
ATLAS studies of the underlying event and double parton scattering
Soft and semi-hard QCD dynamics at CMS – part of the abstract on UE (iv, v)
- Speaker: Kajari Mazumdar (TIFR - EHEP, India, from CMS)
 Material: [Slides](#) 
- 16:00 - 16:30 **Jet production at the LHC, 25+5 30'**
ATLAS measurements of jets
Forward jet and small x QCD physics results from CMS
ATLAS measurements of subjet structure and shapes for boosted hadronic objects
ATLAS measurements of charm and beauty in jets
- Speaker: James Monk ((UC London from ATLAS))
 Material: [Slides](#) 
- 16:30 - 17:05 **Sensitivity to PDF and α_s in jet measurements (HERA+D0+LHC), 25+10 35'**
Jet observables and their sensitivity to proton PDF and α_s (CMS)
Multi-jet observables and their sensitivity to QCD parameters (CMS)
Precision QCD at HERA (HERA)
Measurement of jet cross sections and extraction of the strong coupling in a new energy regime at D0 (D0)
- Speaker: Sebastian Mirko Naumann-Emme (DESY, Germany, from CMS)
 Material: [Slides](#) 
- 17:05 - 17:25 **Coffee break 20'**
- 17:25 - 17:55 **Production of W/Z in association with jets (Tevatron+LHC), 25+5 30'**
Jet production in association with vector bosons at CMS (CMS)
Measurement of W+jets differential cross sections in p-pbar collisions at $\sqrt{s}=1.96$ TeV (D0)
ATLAS measurements of jets and heavy flavour produced in association with W and Z bosons – part of the abstract on jets (ATLAS)
- Speaker: Shin-Shan Yu (National Central University, Taiwan, from CMS)
 Material: [Slides](#) 
- 17:55 - 18:30 **Production of W/Z in association with heavy flavor (Tevatron+LHC), 25+10 35'**
Measurements W and Z boson production in association with b-quarks in p-pbar collisions at $\sqrt{s}=1.96$ TeV
Production of Vector Bosons in Association with Heavy Flavour at CMS
ATLAS measurements of jets and heavy flavour produced in association with W and Z bosons – part of the abstract on heavy flavor
- Speaker: James Mueller (University of Pittsburgh from ATLAS)
 Material: [Slides](#) 

Material: [Slides](#) 

18:30 - 18:55 Production of photons (Tevatron+LHC), 20+5 25'

ATLAS measurements of isolated photon

Measurements of differential production cross sections for photons in association with jets and diphoton final states in p-pbar collisions at $\sqrt{s}=1.96$ TeV

Speaker: Ashish Kumar (D0)

Material: [Slides](#) 

18:55 - 19:20 ALICE results on heavy-flavour and quarkonium production at the LHC (ALICE), (20+5) 25'

Speaker: Francesco Prino (ALICE)

Material: [Slides](#) 










HCP2012 Parallel session - Higgs

Wednesday 14 November 2012 from 14:30 to 19:00 (Asia/Tokyo)

Description conveners :

- Junichi Tanaka (ATLAS)
- Tiziano Camporesi (CMS)
- Lidja Zivkovic (Tevatron , D0)
- Sally Dawson (Theory)

Wednesday 14 November 2012

- 14:30 - 14:50 A new implementation of the NMSSM Higgs decays 20'
 Speaker: Julien Baglio (TP, Karlsruhe Institute of Technology)
 Material: [Slides](#)  [Video](#) 
- 14:50 - 15:06 D0 Higgs to non bb final state 16'
 Speaker: Tim Scanlon
 Material: [Slides](#)  [Video](#) 
- 15:06 - 15:22 H -> WW (ATLAS) 16'
 Speaker: Peter Onyisi (Austin)
 Material: [Slides](#)  [Video](#) 
- 15:22 - 15:39 H -> WW (CMS) 17'
 Speaker: Phillip Russell Duderø (Texas Tech Univ., United States)
 Material: [Slides](#)  [Video](#) 
- 15:39 - 15:56 H -> ZZ (ATLAS) 17'
 Speaker: Anthony Keith Morley (CERN)
 Material: [Slides](#)  [Video](#) 
- 15:56 - 16:12 H -> ZZ (CMS) 16'
 Speaker: Alexey Drozdetskiy (Univ. of Florida, United States)
 Material: [Slides](#)  [Video](#) 
- 16:12 - 16:28 H -> $\gamma\gamma$ (ATLAS) 16'
 Speaker: Marcos Jimenez Belenguer (DESY)
 Material: [Slides](#)  [Video](#) 
- 16:28 - 16:45 H -> $\gamma\gamma$ (CMS) 17'
 Speaker: Nancy Marinelli (Univ. of Notre Dame, United States)
 Material: [Slides](#)  [Video](#) 
- 16:45 - 17:15 **Coffee break**
- 17:15 - 17:30 H -> $\pi\pi$ (ATLAS) 15'
 Speaker: Koji Nakamura (KEK)
 Material: [Slides](#)  [Video](#) 
- 17:30 - 17:45 H -> $\pi\pi$ (CMS) 15'
 Speaker: Roger Wolf (Massachusetts Inst. of Tech., United States)
 Material: [Slides](#)  [Video](#) 
- 17:45 - 18:00 H -> bb (ATLAS) 15'
 Speaker: Philip James Clark (Edinburgh)
 Material: [Slides](#)  [Video](#) 
- 18:00 - 18:15 H -> bb (CMS) 15'
 Speaker: Roberval Walsh Bastos Rangel (DESY)
 Material: [Slides](#)  [Video](#) 
- 18:15 - 18:30 H -> bb (D-Zero) 15'
 Speaker: Yuji Enari (Tevatron)
 Material: [Slides](#)  [Video](#) 
- 18:30 - 18:45 Higgs Properties (ATLAS) 15'
 Speaker: Haiyun Yan (Shanghai Jiao Tong University)

Speaker: [Marco Zanetti \(Massachusetts Inst. of Tech., United States\)](#)

Material: [Slides](#)  [Video](#) 

18:45 - 19:00

fermifobic and properties (CMS) 15'

Speaker: [Marco Zanetti \(Massachusetts Inst. of Tech., United States\)](#)

Material: [Slides](#)  [Video](#) 












HCP2012 Parallel session - Heavy Flavor

Wednesday 14 November 2012 from **14:30** to **19:00** (Asia/Tokyo)

Description session conveners :

- **Darren Price (ATLAS)**
- **Vincenzo Chiochia (CMS)**
- **Mark Williams (Tevatron D0)**
- **Marta Calvi (LHCb)**
- **Gino Isidori (Theory)**

Wednesday 14 November 2012

- 14:30 - 14:55 **Rare B decays and CP-violation in the B system with ATLAS 25'**
 Speaker: Patrick Jussel (Innsbruck)
 Material: [Slides](#)  
- 14:55 - 15:20 **Studies of rare beauty and charm decays with the CMS experiment 25'**
 Speaker: Kai-Feng Chen (National Taiwan University, Taiwan)
 Material: [Slides](#) 
- 15:20 - 15:45 **Rare beauty and charm decays at LHCb 25'**
 Speaker: Johannes Albrecht (CERN)
 Material: [Slides](#) 
- 15:45 - 16:10 **New Physics constrains from rare B decays 25'**
 Speaker: Christoph Bobeth (Munich T.U.)
 Material: [Slides](#) 
- 16:10 - 16:35 **Measurement of CP violation in B mixing and decays at LHCb 25'**
 Speaker: Mika Vesterinen (CERN)
 Material: [Slides](#) 
- 16:35 - 17:00 **Coffee break**
- 17:00 - 17:20 **Measurement of the CKM angle gamma in tree-dominated decays at LHCb 20'**
 Speaker: Stefania Ricciardi (RAL)
 Material: [Slides](#) 
- 17:20 - 17:50 **B-hadrons and heavy quarkonium : spectroscopy and properties 30'**
ATLAS+CMS+LHCb
 Speaker: Elif Asli Yetkin (The Univ. of Iowa, United States)
 Material: [Slides](#) 
- 17:50 - 18:15 **B-quark and quarkonium production and polarization 25'**
ATLAS+CMS+LHCb
 Speaker: Vakhtang Kartvelishvili (Lancaster)
 Material: [Slides](#) 
- 18:15 - 18:40 **Charm mixing and CP violation at LHCb 25'**
 Speaker: Angelo Di Canto (Heidelberg University)
 Material: [Slides](#) 
- 18:40 - 19:00 **Theory progress about CPV in the charm system 20'**
 Speaker: Satoshi Mishima (Rome La Sapienza)
 Material: [Slides](#) 

HCP2012 Parallel session - Electro Weak

Wednesday 14 November 2012 from **14:30** to **19:00** (Asia/Tokyo)

Description session conveners :

- Jianbei Liu (ATLAS)
- Dave Evans (CMS)
- Mark Lancaster (Tevatron CDF)
- Achilleas Lazopoulos (Theory)

Wednesday 14 November 2012

- | | |
|---------------|---|
| 14:30 - 14:55 | <p>EWK Boson Production at LHC-b 25'</p> <p>Speaker: Kurt Rinnert (Liverpool)</p> <p>Material: Slides </p> |
| 14:55 - 15:20 | <p>W Mass and Tevatron TGC 25'</p> <p>Speaker: Pierre Petroff</p> <p>Material: Slides  </p> |
| 15:20 - 15:45 | <p>Mixed NNLO QCD-EW radiative corrections 25'</p> <p>Speaker: Zhao-Ting Pan (LPSC, Grenoble)</p> <p>Material: Slides </p> |
| 15:45 - 16:10 | <p>W/Z production and asymmetry (LHC+Tevatron) 25'</p> <p>Speaker: Gian Piero Di Giovanni (Univ. of Florida, United States)</p> <p>Material: Slides </p> |
| 16:10 - 16:35 | <p>Polarization of W/Z (in association with jets) 25'</p> <p>Speaker: Eleni Vryonidou (Cambridge)</p> <p>Material: Slides </p> |
| 16:35 - 17:00 | <p>TEA Break</p> |
| 17:00 - 17:25 | <p>Dibosons and TGC (LHC) 25'</p> <p>Speaker: Yusheng Wu (Hefei)</p> <p>Material: Slides </p> |
| 17:25 - 17:50 | <p>Φ^* and Q_t observables in Drell-Yan 25'</p> <p>Speaker: Simone Marzani (IPPP, Durham)</p> <p>Material: Slides </p> |
| 17:50 - 18:15 | <p>Spin properties in W (tau) events 25'</p> <p>Speaker: Vadim Kostyukhin (Bonn)</p> <p>Material: Slides </p> |
| 18:15 - 18:40 | <p>BSM constrains from EW measurements 25'</p> <p>Speaker: Celine Degrande (University of Illinois)</p> <p>Material: Slides </p> |

Volker	Adler	Belgium	Universiteit Gent	研究者 (Prof or PD)
Johannes	Albrecht	Switzerland	CERN	研究者 (Prof or PD)
Martin	Aleksa	Switzerland	CERN	研究者 (Prof or PD)
Jean-Franco	Arguin	Canada	Universite de Montreal	研究者 (Prof or PD)
SHOJI	ASAI	Japan	U.Tokyo	研究者 (Prof or PD)
Barbro	Asman	Sweden	Stockholm University	研究者 (Prof or PD)
Julien	Baglio	Germany	TP KIT	研究者 (Prof or PD)
Raphaelle	Bailhache	Germany	Goethe Universitaet Frankfurt	研究者 (Prof or PD)
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Thomas	Barber	Germany	University of Freiburg	研究者 (Prof or PD)
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Sergio	Bertolucci	Switzerland	CERN	研究者 (Prof or PD)
Thomas	Blake	Switzerland	CERN	研究者 (Prof or PD)
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Jonathan	Butterworth	UK	UCL	研究者 (Prof or PD)
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Allan	Clark	Japan	University of Geneva	研究者 (Prof or PD)
Philip	Clark	UK	University of Edinburgh	研究者 (Prof or PD)
Christophe	Clement	Sweden	Stockholm University	研究者 (Prof or PD)
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Kenji	Hamano	Australia	University of Melbourne	研究者 (Prof or PD)
Gavin	Hesketh	UK	University College London	研究者 (Prof or PD)
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Aurelio	Juste	Spain	ICREA/IFAE	研究者 (Prof or PD)
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Andrey	Koshelkin	Russia	Moscow Institute for Physics and Engin	研究者 (Prof or PD)
Vadim	Kostyukhin	Germany	Bonn university	研究者 (Prof or PD)
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Hisaya	Kurashige	Japan	Kobe University	研究者 (Prof or PD)
Masahiro	Kuze	Japan	Tokyo Institute of Technology	研究者 (Prof or PD)
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Kaori	Maeshima	USA	Fermilab	研究者 (Prof or PD)
Sourav	Mandal	Japan	Kavli IPMU (WPI), U. of Tokyo	研究者 (Prof or PD)
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Christoph	Paus	USA	MIT (Massachusetts Institute of Techno	研究者 (Prof or PD)
maria	pedraza morales	Germany	Benemerita Universidad Autonoma de F	研究者 (Prof or PD)
Brian	Petersen	Denmark	CERN	研究者 (Prof or PD)
Troels	Petersen	Switzerland	Niels Bohr Institute	研究者 (Prof or PD)
Elisabeth	Petit	France	LAPP, CNRS/IN2P3 and Universite de	研究者 (Prof or PD)
Pierre	Petroff	France	IN2P3 CNRS	研究者 (Prof or PD)
Giovanni	Petrucciani	USA	University of California, San Diego	研究者 (Prof or PD)
Jan	Piclum	Germany	RWTH Aachen	研究者 (Prof or PD)
Almut	Pingel	Denmark	Niels Bohr Institute, University of Cope	大学院生
Tilman	Plehn	Germany	Heidelberg University	研究者 (Prof or PD)
Roberto	Preghenella	Italy	Museo Storico della Fisica e Centro di S	研究者 (Prof or PD)
Darren	Price	USA	Indiana University	研究者 (Prof or PD)
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Pere	Rados	Australia	The University of Melbourne	研究者 (Prof or PD)
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Kurt	Rinnert	UK	University of Liverpool	研究者 (Prof or PD)
Wolf	Roger	USA	MIT	研究者 (Prof or PD)
Elias	Ron	Switzerland	CMS	研究者 (Prof or PD)
Heidi	Rzehak	Switzerland	CERN	研究者 (Prof or PD)
Hiroshi	Sakamoto	Japan	International Center for Elementary Par	研究者 (Prof or PD)
Daniela	Salvatore	Italy	Universita' della Calabria	研究者 (Prof or PD)
Joe	Sato	Japan	Saitama University	研究者 (Prof or PD)
Tim	Scanlon	Switzerland	CERN	研究者 (Prof or PD)
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Burkhard	Schmidt	Switzerland	CERN	研究者 (Prof or PD)
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Shima	Shimizu	Japan	Nagoya University	研究者 (Prof or PD)
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Bernd	Stelzer	Canada	Simon Fraser University	研究者 (Prof or PD)
Oliver	Stelzer-Chilton	Canada	TRIUMF	研究者 (Prof or PD)
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Astuto	Suzuki	Japan	KEK	研究者 (Prof or PD)
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Fumihito	Takayama	Japan	YITP, Kyoto Univ.	研究者 (Prof or PD)

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Noam	Tal Hod	Holland	NIKHEF	研究者 (Prof or PD)
Junichi	Tanaka	France	ICEPP, The University of Tokyo	研究者 (Prof or PD)
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Katsuo	Tokushuku	Japan	KEK	研究者 (Prof or PD)
Makoto	Tomoto	Japan	Nagoya University	研究者 (Prof or PD)
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