Mini-workshop "Hints for New Physics in Heavy Flavors and related topics" Nagoya Univ., November 15-17,2018

Welcome

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Kobayashi-Maskawa Institute for the Origin of Particles and the Universe

World Research Unit for Heavy Flavor Particle Physics Program for Promoting the Enhancement of Research Universities



Toru lijimaB, Tau PhysicsExotic hadrons



Alessandro Gaz



Theory Junji Hisano Flavor Physics Dark Matter





Kodai Matsuoka







Makoto Tomoto •Top physics •Higgs





Tim Gershon (Warwick)

Yu Nakahama

Kaori Yonemura (secretary)



Peter Krizan

(Ljubljana)

World Research Unit for Heavy Flavor Particle Physics Symposium 2016

"Interplay between LHC and Flavor Physics"

Nagoya, Japan, 14-15 March, 2016













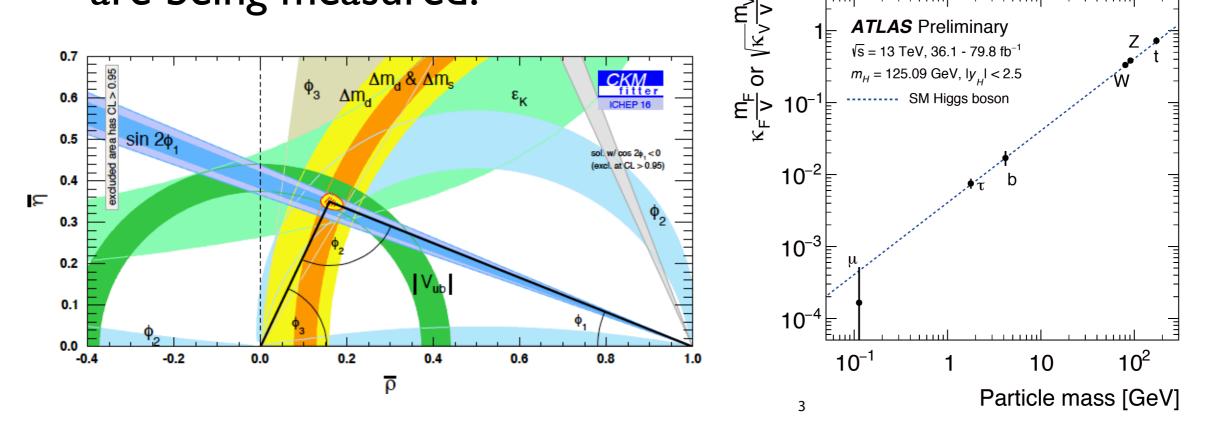
Mini-workshop on $D^{(*)}\tau v$ and related topics

Nagoya University, March 27-28, 2017



Perfect SM

- CP violation explained by the mechanism proposed by Kobayashi and Maskawa.
- Higgs has been discovered and its couplings to fermions are being measured.



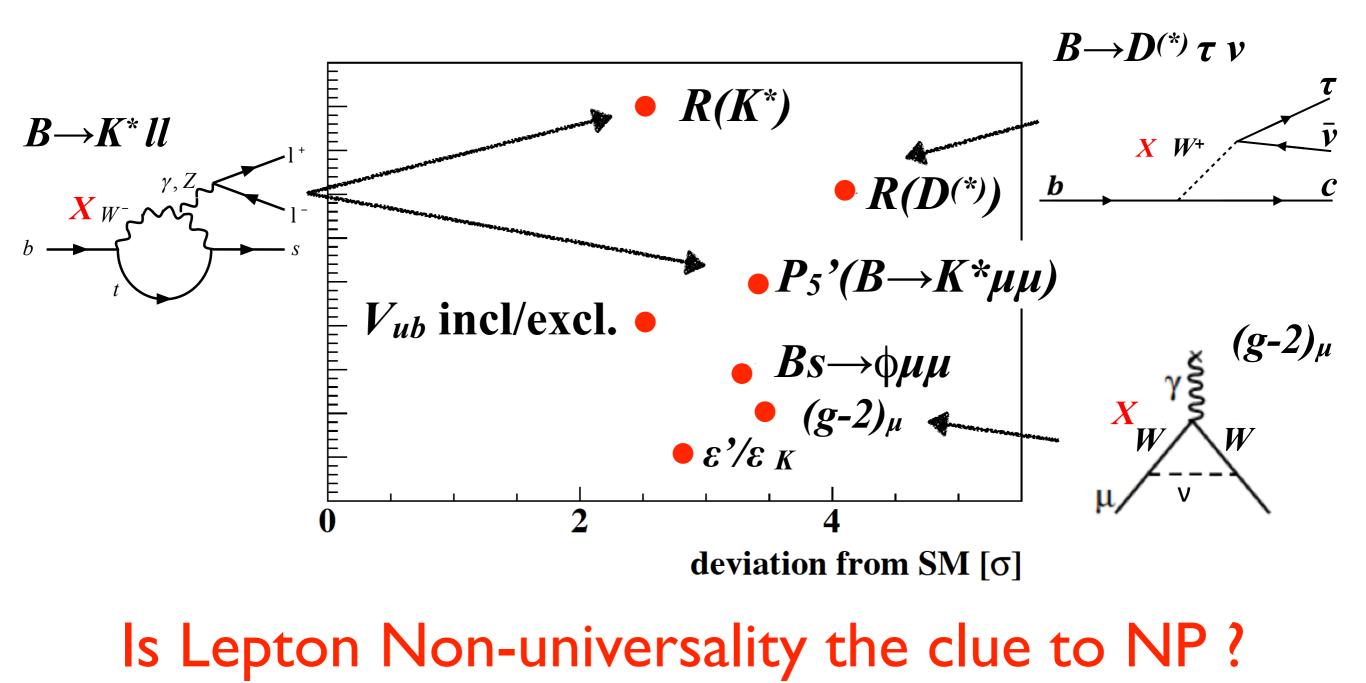
Problems in the SM: naturalness, dark matter, matterantimatter asymmetry in the Universe, ...



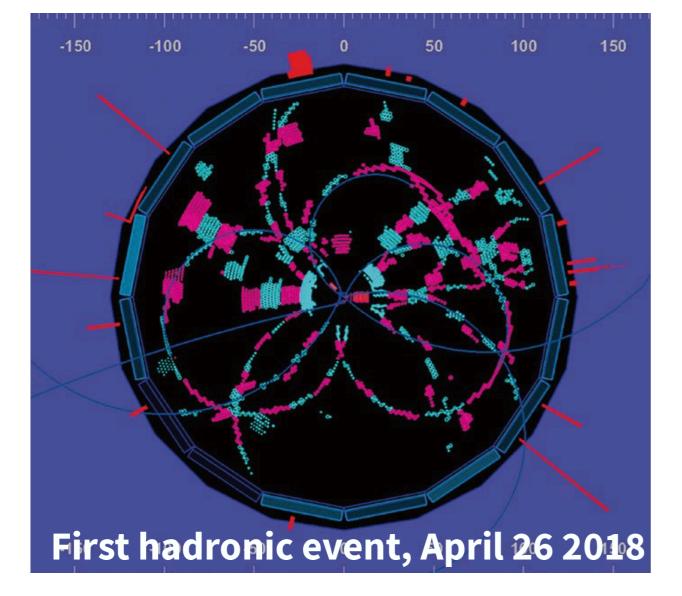
New Physics beyond the SM

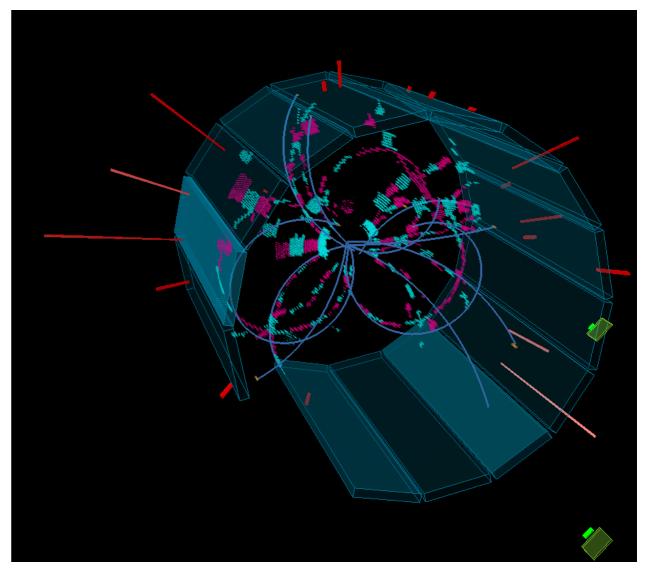
Hints of New Physics !

Observed deviation from SM



First Collision ! 0:38, April 26, 2018





First Collision ! 0:38, April 26, 2018

7



First Collision ! 0:38, April 26, 2018

SHENNS

Kobayashi @ First collisions ceremony

Super

Purpose

Review the most recent experimental and theoretical progress on particle physics phenomena involving heavy quarks and leptons and related topics, which may hint the New Physics beyond the Standard Model (or what we do not understood yet).

Topics will include;

- New Physics in B and Charm Physics
- New Physics in Top and high Pt physics
- New Physics in Tau and related topics (such as muon g-2)
- New Physics in QCD (XYZ hadrons, penta-quarks etc.)
- Interplay between LHC and flavor experiments

This is a (rather informal) workshop to weigh on discussions among experts. Please keep time for your presentation !

Practical Info.

- Please upload your slide on INDICO page well beforehand (one day before the talk).
 - Modification key : NPhint2018Nov
- Lunch :
 - There are cafeterias, cafes, restaurants, convenience stores in the campus (see the campus map).
 - On 16th, lunch box will be provided for those who ordered.
- Reception/Poster : Nov. 15, 19:00 at the entrance hall of the ITbM building.
- Group dinner : Nov. 16, 19:00 at "SAROS" in Motoyama.
- Group photo : Nov. 16, before lunch

Enjoy!



Hope you have chance to enjoy Nagoya city as well.