

# **WG3: Exotic Higgs Decays @ Fermilab**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

# Welcome

*Thursday, 21 May 2015 09:00 (15 minutes)*

Contribution ID: 1

Type: **not specified**

## **Status and progress of the working group**

*Thursday, 21 May 2015 09:15 (30 minutes)*

**Primary author:** TBD

**Presenter:** BRESSLER, Shikma (Weizmann Institute of Science (IL))

Contribution ID: 2

Type: **not specified**

## Long-lived new particles though the Higgs portal

*Thursday, 21 May 2015 09:45 (30 minutes)*

**Primary author:** CUI, Yanou (Perimeter Institute)

**Presenter:** CUI, Yanou (Perimeter Institute)

Contribution ID: 3

Type: **not specified**

## **Displaced vertex signatures: experiment**

*Thursday, 21 May 2015 10:45 (30 minutes)*

**Presenter:** WATTS, Gordon (University of Washington (US))

Contribution ID: 4

Type: **not specified**

## Discussion on displaced vertex signatures

*Thursday, 21 May 2015 11:15 (45 minutes)*

**Presenters:** SHUVE, Brian (Perimeter Institute); RUSSELL, Heather (University of Washington (US)); Prof. LUBATTI, Henry (University of Washington (US)); LIU, Zhen (U of Pittsburgh)

Contribution ID: 5

Type: **not specified**

## **Higgs Decays to Neutrinos, Broadly Defined**

*Thursday, 21 May 2015 13:30 (20 minutes)*

**Presenter:** DE GOUVEA, Andre (Northwestern University)

Contribution ID: 6

Type: **not specified**

## Lepton number violating Higgs decays

*Thursday, 21 May 2015 13:50 (30 minutes)*

**Presenter:** Dr NEMEVSEK, Miha (Jozef Stefan Institute)



Contribution ID: 7

Type: **not specified**

## **Semi-visible Exotic Higgs Decays**

*Thursday, 21 May 2015 16:00 (30 minutes)*

**Presenter:** YU, Felix (Johannes Gutenberg University Mainz)

Contribution ID: 8

Type: **not specified**

## **Higgs Decays to Unstable Neutralinos**

*Thursday, 21 May 2015 16:30 (30 minutes)*

**Presenter:** MORRISSEY, David (TRIUMF)

Contribution ID: 9

Type: **not specified**

## Flavor violating Higgs Decays

*Friday, 22 May 2015 09:00 (20 minutes)*

**Presenter:** HARNIK, Roni (Fermilab)

Contribution ID: **10**

Type: **not specified**

## **A Selection of Models with Modified Yukawa Couplings**

*Friday, 22 May 2015 09:50 (30 minutes)*

**Presenter:** BISHARA, Fady (Fermilab & University of Cincinnati)

Contribution ID: 11

Type: **not specified**

## Higgs rare decays at ATLAS

*Friday, 22 May 2015 10:50 (30 minutes)*

**Presenter:** NIKOLOPOULOS, Konstantinos (University of Birmingham (GB))

Contribution ID: 12

Type: **not specified**

## **LFV Higgs decays and FCNC at CMS experiment**

*Friday, 22 May 2015 09:20 (30 minutes)*

**Presenter:** TARONI, Silvia (Universitaet Zuerich (CH))

Contribution ID: 13

Type: **not specified**

## **New trigger capabilities with FTK**

*Friday, 22 May 2015 11:20 (30 minutes)*

**Presenter:** ALISON, John (University of Chicago (US))

Contribution ID: 14

Type: **not specified**

## **Discussion - triggers for rare and/or exotic decays**

*Friday, 22 May 2015 11:50 (30 minutes)*



Contribution ID: 15

Type: **not specified**

# Probing Electroweak Baryogenesis with Exotic Higgs Decays

*Friday, 22 May 2015 14:00 (30 minutes)*

**Presenter:** CURTIN, David (University of Maryland)

Contribution ID: 16

Type: **not specified**

## **Exotic Higgs at CMS: light bosons beyond the 2HDM**

*Friday, 22 May 2015 14:30 (30 minutes)*

**Presenter:** AGGLETON, Robin Cameron (University of Bristol (GB))

Contribution ID: 17

Type: **not specified**

## **SUSY benchmark activities in WG3**

*Friday, 22 May 2015 15:00 (20 minutes)*

**Primary author:** MUHLLEITNER, Milada (KIT - Karlsruhe Institute of Technology (DE))

**Co-author:** HEINEMEYER, Sven (CSIC (Santander, ES))

**Presenter:** MUHLLEITNER, Milada (KIT - Karlsruhe Institute of Technology (DE))

Contribution ID: **18**

Type: **not specified**

## Summary and Plans

*Friday, 22 May 2015 15:50 (20 minutes)*

Contribution ID: **19**

Type: **not specified**

## **Discussion and future prospects**

*Friday, 22 May 2015 16:10 (50 minutes)*

Contribution ID: 20

Type: **not specified**

## **Discussion: Searches for Semi-invisible and Showering decays**

*Thursday, 21 May 2015 17:00 (30 minutes)*

**Presenter:** SHELTON, Julia

Contribution ID: 21

Type: **not specified**

## Discussion

*Friday, 22 May 2015 13:30 (30 minutes)*

**Primary author:** CURTIN, David (University of Maryland)

**Presenter:** CURTIN, David (University of Maryland)