

HeavyBos

Report of Contributions

Contribution ID: 0

Type: **not specified**

Transfer to Glengoyne Distillery

Monday 25 August 2014 09:00 (1 hour)

The bus departs at 9am sharp(!) in front of the Boyd Orr building at Glasgow University. You can't miss it, it's a pretty darn ugly building. But to avoid daft excuses there's a link to Google Maps in the materials section (to avoid daft excuses).

Contribution ID: 1

Type: **not specified**

Welcome and Coffee

Monday 25 August 2014 10:00 (20 minutes)

Presenters: ENGLERT, Christoph (Glasgow); FERRANDO, James (Glasgow)

Session Classification: Introductory Session

Contribution ID: 2

Type: **not specified**

Transit to Glasgow University

Monday 25 August 2014 17:00 (1 hour)

Contribution ID: 3

Type: **not specified**

Transit to Dinner

Monday 25 August 2014 19:00 (30 minutes)

We will travel to Drygate via subway, the Kelvinbridge subway is handy for the Heritage guest house

Contribution ID: 4

Type: **not specified**

Coffee/tea

Tuesday 26 August 2014 09:30 (30 minutes)

Contribution ID: 5

Type: **not specified**

Lunch

Tuesday 26 August 2014 12:30 (1 hour)

Contribution ID: 6

Type: **not specified**

Coffee/Tea

Tuesday 26 August 2014 15:30 (30 minutes)

Contribution ID: 7

Type: **not specified**

Brief review of best motivated new Heavy bosons to hunt

Monday 25 August 2014 10:20 (30 minutes)

Session Classification: Introductory Session

Contribution ID: 8

Type: **not specified**

Brief review of existing experimental searches

Monday 25 August 2014 10:50 (30 minutes)

Session Classification: Introductory Session

Contribution ID: 9

Type: **not specified**

Discussion

Monday 25 August 2014 11:20 (1 hour)

Which search channels are missing?

What will be possible with the upgraded (HL-)LHC that is not possible now?

Is the current range of masses/parameters probed the most theoretically interesting one?

Viable models (?)

Session Classification: Introductory Session

Contribution ID: 10

Type: **not specified**

Separating heavy bosons from the backgrounds (experimental)

Monday 25 August 2014 14:00 (30 minutes)

jet substructure techniques, and mass-type variables used to distinguish signal from (ir)reducible backgrounds

Session Classification: Session II

Contribution ID: 11

Type: **not specified**

Theoretical aspects of substructure and mass reconstruction

Monday 25 August 2014 14:30 (30 minutes)

Session Classification: Session II

Contribution ID: 12

Type: **not specified**

Discussion

Monday 25 August 2014 16:00 (1 hour)

Is the current status of boosted object reconstruction techniques sufficient for the needs of this searches?

Is experimental b-tagging good enough for boosted H/ t kinematics?

Do we need new techniques for leptonic and semi-leptonically decaying boosted objects?

Are there better physical quantities to use for experimental discriminant distributions? esp. for states with missing transverse momentum

To what extent can we trust our simulation of these variables?

Session Classification: Session II

Contribution ID: 13

Type: **not specified**

Tea/Coffee

Monday 25 August 2014 15:30 (30 minutes)

Session Classification: Session II

Contribution ID: 14

Type: **not specified**

MC aspects of heavy boson simulation

Monday 25 August 2014 15:00 (30 minutes)

Session Classification: Session II

Contribution ID: 15

Type: **not specified**

Experimental treatment of MC/ theory systematic uncertainties (review)

Tuesday 26 August 2014 10:00 (30 minutes)

Session Classification: Session III

Contribution ID: **16**

Type: **not specified**

Discussion

Tuesday 26 August 2014 10:30 (2 hours)

Session Classification: Session III

Contribution ID: 17

Type: **not specified**

Experimental presentation of new boson search results

Tuesday 26 August 2014 13:30 (30 minutes)

Session Classification: Session IV

Contribution ID: 18

Type: **not specified**

Reinterpreting experimental search results (Theorists perspective)

Tuesday 26 August 2014 14:00 (30 minutes)

Session Classification: Session IV

Contribution ID: **19**

Type: **not specified**

Discussion

Tuesday 26 August 2014 14:30 (1 hour)

Session Classification: Session IV

Contribution ID: 20

Type: **not specified**

Experimental Summary

Tuesday 26 August 2014 16:00 (30 minutes)

Session Classification: Concluding Session

Contribution ID: 21

Type: **not specified**

Theoretical summary

Tuesday 26 August 2014 16:30 (30 minutes)

Session Classification: Concluding Session