Challenges in Semileptonic B Decays

Report of Contributions

https://indico.cern.ch/e/851900

Contribution ID: **2** Type: **not specified**

B to D(*) theory overview

Tuesday 19 April 2022 16:00 (30 minutes)

Presenter: VAN DYK, Danny (TU München)

Session Classification: Heavy to heavy exclusive

Contribution ID: **3** Type: **not specified**

B to D* form factors on the lattice I

Tuesday 19 April 2022 16:30 (30 minutes)

Presenter: VAQUERO AVILÉS-CASCO, Alejandro (University of Utah)

Session Classification: Heavy to heavy exclusive

Contribution ID: **4** Type: **not specified**

Belle measurements of B to D(*) l nu

Contribution ID: **5** Type: **not specified**

Belle measurements of B to D(*) l v

Tuesday 19 April 2022 17:00 (30 minutes)

Presenter: MRVAR, Manca (Austrian Academy of Sciences (AT))

Session Classification: Heavy to heavy exclusive

Contribution ID: **6** Type: **not specified**

Lattice calculations of exclusive b to u l v

Wednesday 20 April 2022 17:00 (30 minutes)

Presenter: WITZEL, Oliver (Universität Siegen)

Session Classification: Heavy to light exclusive

Contribution ID: **7** Type: **not specified**

Fermilab update

Wednesday 20 April 2022 17:30 (20 minutes)

Presenter: EL-KHADRA, Aida

Session Classification: Heavy to light exclusive

Contribution ID: **8** Type: **not specified**

Light cone sum rules calculations for b to u channels

Wednesday 20 April 2022 17:50 (30 minutes)

Presenter: KHODJAMIRIAN, Alexander (University of Siegen)

Session Classification: Heavy to light exclusive

Contribution ID: **9** Type: **not specified**

B->D* angular analysis in LHCb

Tuesday 19 April 2022 18:00 (20 minutes)

Presenter: GRILLO, Lucia (University of Glasgow (GB))

Session Classification: Heavy to heavy exclusive

Contribution ID: **10** Type: **not specified**

Vcb at LHCb with B and Bs decays

Tuesday 19 April 2022 18:20 (20 minutes)

Presenter: DORIGO, Mirco (INFN Trieste)

Session Classification: Heavy to heavy exclusive

Contribution ID: **11** Type: **not specified**

R(D)-R(D*) status and prospects at Belle

Wednesday 20 April 2022 11:30 (20 minutes)

Presenter: BERNLOCHNER, Florian Urs (University of Bonn (DE))

Session Classification: Heavy to heavy exclusive

Contribution ID: **12** Type: **not specified**

Semileptonic b decays at CMS

Wednesday 20 April 2022 11:50 (30 minutes)

Presenter: LANDSBERG, Greg (Brown University (US))

Session Classification: Heavy to heavy exclusive

Contribution ID: **13** Type: **not specified**

Babar analyses

Tuesday 19 April 2022 18:40 (20 minutes)

Presenter: DEY, Biplab (Eotvos U.)

Session Classification: Heavy to heavy exclusive

Contribution ID: **14** Type: **not specified**

HPQCD calculations for H->H

Wednesday 20 April 2022 09:30 (30 minutes)

Presenter: HARRISON, Judd

Session Classification: Heavy to heavy exclusive

Contribution ID: **15** Type: **not specified**

Vcb and R(Dˆ(*)) using lattice QCD and unitarity

Wednesday 20 April 2022 10:00 (30 minutes)

Presenter: SIMULA, Silvano (INFN - Sezione di Roma Tre)

Session Classification: Heavy to heavy exclusive

Contribution ID: **16** Type: **not specified**

R(D) and R(D*): status and prospects

Wednesday 20 April 2022 10:30 (30 minutes)

Presenter: CIEZAREK, Gregory Max (CERN)

Session Classification: Heavy to heavy exclusive

Contribution ID: **17** Type: **not specified**

b-baryon semileptonic decays

Wednesday 20 April 2022 12:20 (20 minutes)

Presenter: OWEN, Patrick Haworth (University of Zurich (CH))

Session Classification: Heavy to heavy exclusive

Contribution ID: **18** Type: **not specified**

Inclusive Vcb

Wednesday 20 April 2022 15:35 (20 minutes)

Presenter: BORDONE, Marzia (CERN)

Session Classification: Heavy to heavy inclusive

Contribution ID: **19** Type: **not specified**

q2 moments in the HQE

Wednesday 20 April 2022 15:55 (20 minutes)

Presenter: VOS, Keri (Universiteit Maastricht (NL))

Session Classification: Heavy to heavy inclusive

Contribution ID: **20** Type: **not specified**

Three loop calculations for inclusive semileptonic B decays

Wednesday 20 April 2022 15:05 (30 minutes)

Presenter: FAEL, Matteo (KIT Karlsruhe)

Session Classification: Heavy to heavy inclusive

Contribution ID: **21** Type: **not specified**

Inclusive semileptonic B decays at Belle (II)

Wednesday 20 April 2022 16:15 (20 minutes)

Presenter: VAN TONDER, Raynette

Session Classification: Heavy to heavy inclusive

Contribution ID: **22** Type: **not specified**

Fits for Vub exclusive

Wednesday 20 April 2022 18:20 (20 minutes)

Presenter: NANDI, Soumitra (University of Torino)

Session Classification: Heavy to light exclusive

Contribution ID: **23** Type: **not specified**

JLQCD form factors for B-> Dˆ(*) l v

Thursday 21 April 2022 09:30 (30 minutes)

Presenter: KANEKO, Takashi

Session Classification: Heavy to heavy inclusive

Contribution ID: **24** Type: **not specified**

Inclusive decays on the lattice

Thursday 21 April 2022 10:00 (30 minutes)

Presenter: HASHIMOTO, Shoji (KEK)

Session Classification: Heavy to heavy inclusive

Contribution ID: **25** Type: **not specified**

Bs ->Xc l v at LHCb

Thursday 21 April 2022 10:30 (30 minutes)

Presenter: ROTONDO, Marcello (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: Heavy to heavy inclusive

Contribution ID: **26** Type: **not specified**

Heavy to light exclusive at Belle (II)

Thursday 21 April 2022 11:50 (30 minutes)

Presenter: SCHWANDA, Christoph (Austrian Academy of Sciences (AT))

Session Classification: Heavy to light exclusive

Contribution ID: **27** Type: **not specified**

Bs -> K at LHCb

Thursday 21 April 2022 11:30 (20 minutes)

Presenter: KHANJI, Basem (Technische Universitaet Dortmund (DE))

Session Classification: Heavy to light exclusive

Contribution ID: **28** Type: **not specified**

Inclusive charmless decays at Belle (II)

Presenter: CAO, Lu (University of Bonn)

Session Classification: Heavy to light exclusive

Contribution ID: **29** Type: **not specified**

Inclusive charmless decays at Belle (II)

Friday 22 April 2022 09:30 (30 minutes)

Presenter: CAO, Lu (University of Bonn)

Session Classification: Heavy to light inclusive

Contribution ID: **30** Type: **not specified**

Inclusive theory overview

Friday 22 April 2022 10:00 (30 minutes)

Presenter: PAZ, Gil (Wayne State University)

Session Classification: Heavy to light inclusive

Contribution ID: **31** Type: **not specified**

Vub and radiative decays with SIMBA

Friday 22 April 2022 10:30 (30 minutes)

Presenter: LIGETI, Zoltan (Lawrence Berkeley National Lab. (US))

Session Classification: Heavy to light inclusive

Contribution ID: **32** Type: **not specified**

The spectrum of b->s gamma with neural networks

Friday 22 April 2022 11:30 (20 minutes)

Presenter: LUNGHI, Enrico (Indiana University)

Session Classification: Heavy to light inclusive

Contribution ID: **33** Type: **not specified**

Vub/Vcb inclusive at Belle

Friday 22 April 2022 11:50 (20 minutes)

Presenter: HOHMANN, Marcel

Session Classification: Heavy to light inclusive

Contribution ID: **34** Type: **not specified**

Subleading perturbative corrections

Friday 22 April 2022 12:10 (20 minutes)

Presenter: CAPDEVILA, Bernat (University of Turin)

Session Classification: Heavy to light inclusive

Contribution ID: **35** Type: **not specified**

Testing New Physics in R(D(*)) at the LHC

Friday 22 April 2022 12:30 (30 minutes)

Presenter: WATANABE, Ryoutaro (INFN Pisa)

Session Classification: Heavy to light inclusive

Contribution ID: **36** Type: **not specified**

Probing the structure of the B meson with B to lll'nu

Thursday 21 April 2022 12:20 (30 minutes)

Presenter: BHARUCHA, Aoife (CNRS)

Session Classification: Heavy to light exclusive

Contribution ID: **37** Type: **not specified**

Prospects of lattice calculations

Saturday 23 April 2022 09:00 (30 minutes)

Presenter: KRONFELD, Andreas

Session Classification: Future prospects

Contribution ID: **38** Type: **not specified**

Experimental prospects at Belle II

Saturday 23 April 2022 09:30 (20 minutes)

Presenter: SCHWANDA, Christoph (Austrian Academy of Sciences (AT))

Session Classification: Future prospects

Contribution ID: **39** Type: **not specified**

Experimental prospects at LHCb

Saturday 23 April 2022 09:50 (20 minutes)

Presenter: BOZZI, Concezio (INFN Ferrara)

Session Classification: Future prospects

Contribution ID: **40** Type: **not specified**

B to D** ffs with LCSRs

Thursday 21 April 2022 16:30 (10 minutes)

Presenter: GUBERNARI, Nico (Universität Siegen)

Session Classification: Heavy to heavy exclusive

Contribution ID: **41** Type: **not specified**

Dispersive matrix analysis of B to pi

Thursday 21 April 2022 16:40 (10 minutes)

Presenter: VITTORIO, Ludovico (SNS, Pisa)

Session Classification: Heavy to heavy exclusive

Contribution ID: **42** Type: **not specified**

B to D* fits

Thursday 21 April 2022 16:50 (15 minutes)

Presenter: JUNG, Martin (Università di Torino & INFN)

Session Classification: Heavy to heavy exclusive

Contribution ID: **43** Type: **not specified**

The treatment of photons in experiments

Friday 22 April 2022 15:00 (30 minutes)

Presenter: BERNLOCHNER, Florian Urs (University of Bonn (DE))

Session Classification: QED corrections

Contribution ID: **44** Type: **not specified**

Playing with Photos

Friday 22 April 2022 15:30 (30 minutes)

Presenter: ROTONDO, Marcello (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: QED corrections

Contribution ID: **45** Type: **not specified**

Discussion

Friday 22 April 2022 16:15 (15 minutes)

Presenter: SCHACHT, Stefan (University of Manchester)

Session Classification: QED corrections

Contribution ID: **46** Type: **not specified**

Comments on Vub/Vcb from Bs->K

Friday 22 April 2022 16:00 (15 minutes)

Presenter: LUNGHI, Enrico (Indiana University)

Session Classification: QED corrections

Contribution ID: **47** Type: **not specified**

Discussion topics

Thursday 21 April 2022 14:30 (1 hour)

Presenter: SCHACHT, Stefan (University of Manchester)

Session Classification: Heavy to heavy exclusive

Contribution ID: **48** Type: **not specified**

Contribution to the discussion

Thursday 21 April 2022 15:30 (30 minutes)

Presenter: SIMULA, Silvano (INFN - Sezione di Roma Tre)

Session Classification: Heavy to heavy exclusive