Ayan Paul

Fellow @ DESY, Hamburg & Senior Scientist @ Humboldt Universität zu Berlin Institut für Physik, Humboldt Universität zu Berlin, Notkestaße 15, 12489 Berlin, Germany.

■ apaul2@alumni.nd.edu | ★ www.desy.de/~apaul | 🖸 talismanbrandi | 🛅 ayan--paul | 🎓 Google Scholar

Research Expertise_

- Charm dynamics: CP violation, hadronic decays, final state interactions, leptonic and semileptonic decays.
- Beauty dynamics: Semileptonic and leptonic decays, decay distributions, tests of lepton flavour universality and BSM
- Higgs and EW Physics: Effective Field Theories, Higgs productions and decays, BSM and future colliders
- Physics Computation: Active developer for the statistical core (MCMC based Bayesian Analysis) and flavour physics in HEPfit
- Liaison with Experiments: Contributor to B2TiP and associate member of the former Consorzio Laboratorio Nicola Cabibbo
- Mathematical Epidemiology: Modeling of COVID-19 disease spread, mitigation and exit strategies.

Academic Appointments

Deutsches Elektronen-Synchrotron (DESY)

Hamburg, Germany November 2017 - PRESENT

FELLOW November 2017 - PRESENT

Delegated as Senior Scientist to the Humboldt Universität zu Berlin.

Istituto Nazionale di Fisica Nucleare, Sezione di Roma I

POSTDOCTORAL FELLOW September 2012 - October 2017

ERC Grant "NPFlavour".

University of Notre Dame du Lac

Notre Dame IN, USA

TEACHING ASSISTANT August 2005 - December 2011

Employed full-time by the Department of Physics.

Education _

University of Notre Dame du Lac, Department of Physics

Notre Dame, Indiana

2007 - 2012

Roma, Italy

PhD in Physics

Title of dissertation: Charm Beyond the Standard Model

PhD Advisor: Prof. Ikaros I. Bigi

University of Notre Dame du Lac, Department of Physics

Notre Dame, Indiana

MS IN PHYSICS

M.Sc. IN PHYSICS

2005 - 2007

S. N. Bose National Center for Basic Sciences

Calcutta, India 2003 - 2005

Presidency College, University of Calcutta

Calcutta, India

B.Sc. IN PHYSICS

1999 - 2002

Grants & Awards

2020	DESY Strategy Fund for COVID-19 (100,000€) , Deutsches Elektronen-Synchrotron	Hamburg, Germany
2020	Corona Crisis and Beyond (under review, 120,000€), Volkswagen Stiftung	Germany
2012	GPS Conference 2012 Sponsorships , Dept. of Physics & Graduate School, University of	Notre Dame, IN USA
	Notre Dame du Lac	
2012	Research and Dissertation Award, Dept. of Physics, University of Notre Dame du Lac	Notre Dame, IN USA
2011	Notebaert Prof. Dev. Fund (II), Graduate School, University of Notre Dame du Lac	Notre Dame, IN USA
2011	Notebaert Prof. Dev. Fund (I), Graduate School, University of Notre Dame du Lac	Notre Dame, IN USA
2011	Joseph F. Downes Memorial Award, Graduate School, University of Notre Dame du Lac	Notre Dame, IN USA
2010	W. & L. Stavropoulos Fellowship, Graduate School, University of Notre Dame du Lac	Notre Dame, IN USA
2010	Kaneb Outstanding Graduate Teaching Assistant Award, Kaneb Center, University of	Notre Dame, IN USA
	Notre Dame du Lac	
2009	Reilly Fellowship, Graduate School, University of Notre Dame du Lac	Notre Dame, IN USA
2005	CSIR Junior Research Fellowship, Center for Scientific and Industrial Research (HRDG,	Calcutta, India
	Govt. of India)	
2005	University Lecturership, National Eligibility Test (UGC-CSIR, Govt. of India)	Calcutta, India
2003 – 2005	Research Fellowship, S. N. Bose National Center for Basic Sciences	Calcutta, India

Computational Skills and Experience

Programming Languages FORTRAN, C, C++ (Primary language for HEPfit), Python, Perl, shell scripting, Java Script

Parallel Computing MPI and OpenMP (Used in HEPfit and BAT)

HEP Tools MadGraph, FormCalc, FeynRules, FeynCalc, FeynArts, FeynHiggs, LoopTools, MCFM and several

other public codes used in HEP

Libraries & Packages ROOT, GSL, BOOST, BAT (Used in HEPfit), TensorFlow, XGBoost, scikit-learn etc.

Functional Programming Mathematica, MatLab, form and R

Analytic Methods Bayesian Analysis, Markov Chain Monte Carlo, Statistical Inference, Multivariate Methods, Neural

Networks and Machine Learning.

Code Moderation Moderator for the core of the HEPfit code (statistical framework and the user interface.)

Flavour@HEPfit Implemented flavour observables from all flavour sectors in HEPfit

Complex Networks Network construction and analysis of the authors' collaboration network of all publications in

Physical Review C during 2000 – 2006 with an aim to enhance inter-disciplinary and

inter-institutional collaborations and for use in reports and proposals submitted to national

funding agencies. (Project funded by JINA in 2017)

Github repository for HEPfit: https://github.com/silvest/HEPfit.

My contributions to HEPfit and other codes: https://github.com/talismanbrandi.

Publications ___

Authors are always listed alphabetically arranged by their last name in Particle Physics papers with very rare exceptions.

COVID-19:

- 1. H. Kim and A. Paul, Contact Tracing: a game of big numbers in the time of COVID-19, medRxiv DOI:10.1101/2020.04.22.20071043v1. Submitted for review.
- 2. A. Paul, P Englert and M. Varga, Socio-economic disparities and COVID-19 in the USA, arXiv:2009.04935. Submitted for review.
- 3. J. Bell et al., Beyond COVID-19: Network science and sustainable exit strategies, arXiv:2009.12968. Submitted for review.

Flavour Physics:

- 1. L. Alasfar, A. Azatov, J. de Blas, A. Paul, M. Valli, *B anomalies under the lens of electroweak precision*, arXiv:2007.04400. Submitted for review. (1 citation)
- 2. M. Ciuchini, A. Coutinho, M. Fedele, E. Franco, A. Paul, L. Silvestrini and M. Valli, New Physics in $b \to s\ell^+\ell^-$ confronts new data on Lepton Universality, Eur. Phys. J. **C79** (2019) no.8, 719. [arXiv:1903.09632]. (105 citations)
- 3. F. Buccella, A. Paul and P. Santorelli, $SU(3)_F$ breaking through FSI phases and CP asymmetries in $D \to PP$ decays, Phys. Rev. **D 99** (2019) no.11, 113001. [arXiv:1902.05564]. (14 citations)
- 4. M. Ciuchini, A. Coutinho, M. Fedele, E. Franco, A. Paul, L. Silvestrini and M. Valli, *Hadronic uncertainties in the* $B \to K^* \ell^+ \ell^-$ *decays*, Proceedings of the International Conference on B-Physics at Frontier Machines, BEAUTY 2018. PoS **BEAUTY2018** (2018) 044. [arXiv:1809.03789]. (6 citations)
- 5. Belle II Collaboration (E. Kou (ed.) et. al.), *The Belle II Physics Book*, PTEP 2019 (2019) 12, 123C01. [arXiv:1808.10567]. (474 citations)
- 6. M. Ciuchini, A. Coutinho, M. Fedele, E. Franco, A. Paul, L. Silvestrini and M. Valli, On Hadronic uncertainties polluting the New Physics hunt in $b \to s$ transitions, Proceedings of the 7th Workshop on Theory, Phenomenology and Experiments in Flavour Physics: The Future of BSM Physics. Nucl. Part. Phys. Proc. **303-305** (2018) 8-13. [inspirehep link]. (1 citation)
- 7. M. Ciuchini, M. Fedele, E. Franco, S. Mishima, A. Paul, L. Silvestrini and M. Valli, *Knowns and Unknowns in the Predictions for* $B \to K^* \ell^+ \ell^-$, Proceedings of the 6th Workshop on Theory, Phenomenology and Experiments in Flavour Physics: Interplay of Flavour Physics with electroweak symmetry breaking. Nucl. Part. Phys. Proc. **285-286** (2017) 45-49. [*inspirehep link*]. (6 citations)
- 8. M. Ciuchini, A. Coutinho, M. Fedele, E. Franco, A. Paul, L. Silvestrini and M. Valli, *On Flavourful Easter eggs for New Physics hunger and Lepton Flavour Universality violation*, Eur. Phys. J. **C77** (2017) no.10, 688. [arXiv:1704.05447]. (6 citations)
- 9. G. Casarosa, A. Di Canto and A. Paul, *Phenomenological and Experimental Developments in Charm Physics: The WG7 Report from CKM 2016*, PoS **CKM2016** (2017) 020. [arXiv:1704.00041]. (210 citations)
- 10. M. Ciuchini, M. Fedele, E. Franco, S. Mishima, A. Paul, L. Silvestrini and M. Valli, $B \to K^* \ell^+ \ell^-$ in the Standard Model: Elaborations and Interpretations, PoS ICHEP2016 (2016) 584. [arXiv:1611.04338]. (24 citations)
- 11. A. Paul and D. Straub, Constraints on new physics from radiative B decays, JHEP**04** (2017) 027. [arXiv:1608.02556.] (58 citations)

- 12. M. Ciuchini, M. Fedele, E. Franco, S. Mishima, A. Paul, L. Silvestrini and M. Valli, $B \to K^* \ell^+ \ell^-$ decays at large recoil in the Standard Model: a theoretical reappraisal. JHEP**06** (2016) 116. [arXiv:1512.07157]. (179 citations)
- 13. A. Paul, Lessons from charm dynamics. Proceedings of XII IFAE, Cittadella Universitaria di Monserrato, Cagliari. 3rd 5th April 2013. Il Nuo. Cim. C 37 N. 1. [arXiv:1308.5886]. (0 citation)
- 14. A. Paul, A. de La Puente and I. I. Bigi, *Manifestations of Warped Extra Dimension in Rare Charm Decays and Asymmetries*. Phys. Rev. **D 90** (2014) 014035. [arXiv:1212.4849]. (25 citations)
- 15. I. I. Bigi and A. Paul, *On CP Asymmetries in Two-, Three- and Four-Body D Decays*. JHEP**03** (2012) 021. [arXiv:1110.2862]. (41 citations)
- 16. I. I. Bigi, A. Paul and S. Recksiegel, *Theoretical Conclusions from CDF Analyses of CP Violation in* $D^0 \to \pi^+\pi^-$, K^+K^- and Future Tasks. JHEP**06** (2011) 089. [arXiv:1103.5785]. (53 citations)
- 17. A. Paul, I. I. Bigi and S. Recksiegel, On $D \to X_u l^+ l^-$ within the Standard Model and Frameworks like the littlelest Higgs model with T Parity. Phys. Rev. **D 83** (2011) 114006. [arXiv:1101.6053]. (60 citations)
- 18. A. Paul, I. I. Bigi and S. Recksiegel, $D^0 \to \gamma \gamma$ and $D^0 \to \mu^+ \mu^-$ rates on an unlikely impact of the littlest Higgs model with T parity. Phys. Rev. **D 82** (2010) 094006. [arXiv:1008:3141]. (39 citations)

Higgs and Electroweak Physics:

- 1. J. De Blas, G. Durieux, C. Grojean, J. Gu and A. Paul, *On the future of Higgs, electroweak and diboson measurements at lepton colliders*. JHEP**12** (2019) 117. [arXiv:1907.04311]. (17 citations)
- 2. J. de Blas et. al., CLIC Potential for New Physics. CERN Yellow Rep. Monogr. Vol. 3 (2018). [arXiv:1812.02093]. (76 citations)
- 3. S. Gori, C. Grojean, A. Juste, A. Paul, *Heavy Higgs Searches: Flavor Matters*. JHEP**01** (2018) 108. [arXiv:1710.03752]. (17 citations)
- 4. A. Azatov, C. Grojean, A. Paul and E. Salvioni, *Resolving gluon fusion loops at current and future hadron colliders*. JHEP**09** (2016) 123. [arXiv:1608.00977]. (39 citations)
- 5. A. Azatov, C. Grojean, A. Paul and E. Salvioni, *Taming the off-shell Higgs boson*. J. Exp. Theor. Phys. 120 (2015). [arXiv:1406.6338]. (83 citations)
- 6. A. Azatov and A. Paul, Probing Higgs couplings with high p_T Higgs production. JHEP**01** (2014) 014. [arXiv:1309.5273]. (98 citations)

Computation for Physics:

1. J. de Blas et. al., HEPfit: a Code for the Combination of Indirect and Direct Constraints on High Energy Physics Models. Eur. Phys. J. C80 (2020) no.5, 456. [arXiv:1910.14012].

Teaching & Mentoring

SCHOOL LECTURES

September 2019 Berlin QFT Master Class, Electroweak Symmetry Breaking.

THESIS SUPERVISION

2015 Claudio Fabiani, MS Thesis, Università di Roma La Sapienza.

The decays of $B_{s,d}$ in the Standard Model.

2014 Marco Fedele, MS Thesis, Università di Roma La Sapienza.

Study of the $B o K^{(*)} \ell^+ \ell^-$ decays in the Standard Model and Beyond.

COVID-19 WORKING GROUP

Megan Bromley, PhD Student, School of Earth and Space Exploration, Arizona State University, USA.

Philipp Englert, PhD Candidate, DESY, Hamburg, Germany.

Maryl Harris, Research Technician, Monell Chemical Senses Center, USA.

Swanand Khanapurkar, PhD Student, Department of Physics, Arizona State University, USA. **Nicholas Tran**, MS Student, Department of Computer Science, Arizona State University, USA.

TEACHING AT UNIVERSITY OF NOTRE DAME DU LAC

2006 – 2010 **Tutor** for the Academic Services for Student Athletes for *Physics* and *Mathematics*

2006 – 2011 Instructor for FORTRAN for REU Summer Students

August 2014 Lectures on CP Violation

2005 - 2011 **Teaching Assistant** for undergraduate and graduate courses. (Kaneb Outstanding Graduate TA Award recipient)

Graduate Courses:

- Classical Mechanics
- Special and General Relativity
- Quantum Field Theory I
- Ouantum Mechanics
- Particle Physics
- Atomic Physics
- Statistical Mechanics

Academic and Outreach Activities_

Present	Guest Editor , "Symmetries in Particle Physics" – special edition for Symmetry	
	Referee for peer reviewed journals, JHEP, Nucl. Phys. B, EPJ C and Scipost	
September 2019	DESY Theory Workshop 2019 , Chairperson for the Particle Phenomenology sessions	Hamburg, Germany.
2016	CKM 2016 , Convener of WG7 – Charm Physics	Mumbai, India.
2012-2016	Content Editor , Global editions of Physics textbooks for Pearson Education.	Pearson India
2012	GPS Conference 2012, Founding Organizer	Notre Dame IN, USA.
2011-2012	Graduate Physics Society, Member of Founding Committee	Notre Dame IN, USA.
2010-2012	Science Outreach , Judge for several science fairs for junior and middle school students	Notre Dame IN, USA.
2007-2008	Graduate Student Union , Representative for the Physics Department	Notre Dame IN, USA.
2003-2005	Institute Sports Committee , Sports equipments acquisition and auditing at S N	Kolkata, India.
	Bose National Center for Basic Sciences	

Presentations _____

PLENARY TALKS (7)

28^{th} May 2020 COVID-19 Beyond Center Workshop , "The Curious Case of Automated Contact	Tempe, USA.
Tracing"	
18^{th} May 2020 CHARM 2020 , "Flavour Symmetries and CP violation in Charm"	Mexico City, Mexico.
28 th April 2020 Quantum Universe Workshop , "COVID-19 and a Theorist's Dilemma"	Hamburg, Germany.
2^{nd} December 2016 CKM 2016 , "A Summary on Charm Dynamics from WG7"	Mumbai, India.
6^{th} September 2016 CHARM 2016 , "Theoretical aspects on NP search in rare and (semi-)leptonic decays"	Bologna, Italy.
4^{th} April 2013 XII IFAE, Cittadella Universitaria di Monserrato, "A Higgs and the World of Flavour"	Cagliari, Italy.
16 th January 2013 XX DAE-BRNS HEP Symposium, "For When the Bells toll"	Santiniketan, India.

INVITED TALKS (12)

2^{nd} November 2020 TOOLS 2020 , "HEPfit: The Bayesian MCMC for HEP"	Lyon, France.
23^{rd} July 2018 Higgs Hunting 2018 , "Flavour Physics meets Heavy Higgs Searches"	Orsay-Paris, France.
24 th May 2018 HXSWG Offshell Meetings: BSM/EFT studies , "Looking Inside Gluon Fusion Loops"	Geneva, Switzerland.
9^{th} November 2017 LHCb Implications 2017 , "CP violation in charm: from Rags to Riches"	Geneva, Switzerland.
30^{th} May 2017 Beyond the LHCb Phase-1 Upgrade , "The On-Shell Story"	Isola d?Elba, Italy.
23 rd May 2016 ${f 4^{th}}$ B2TiP Workshop , "Prospects of estimating hadronic uncertainties in $B o K^*\gamma$ "	Pittsburgh, USA.
9^{th} March 2016 Towards the Theory of Flavour , "Musings on the Future of Beauty and Charm	Munich, Germany.
Dynamics"	
29^{th} October 2015 3rd B2TiP Workshop , "An Introduction to HEPfit"	Tsukuba, Japan.
27 th April 2015 2nd B2TiP Workshop , "Tutorial on SusyFit"	Krakow, Poland.
27^{th} April 2015 2nd B2TiP Workshop , "Diagrammatic approaches to understanding the SU(3)	Krakow, Poland.
framework"	
25^{th} February 2015 New Physics at Belle II , "An Introduction to SusyFit"	Karlsruhe, Germany.
10 th December 2014 The landscape of Flavour Physics towards the high intensity era , "The Charm of	Pisa, Italy.
the Future"	
18 th November 2011 Workshop on Antiproton Physics at the Intensity Frontier , "TAPAS and Charm	Fermilab, Batavia,
Physics"	USA
SEMINARS (22)	
16 th January 2020 LPT, Orsay , "Flavour Physics: A Precision Tool for Exploring Scale Separations"	Orsay, France.

15 th August 2018 Arizona State University , "Higgs Dynamics with Effective Field Theories"	Tempe, USA.
7^{th} May 2018 IFIC , "Flavour@HEPfit"	Valencia, Spain.
25^{th} January 2018 TIFR , "Flavour Physics meets Heavy Higgs Searches"	Mumbai, India.
10 th July 2015 CERN , " $B o K^*\mu^+\mu^-$ decays in the Standard Model: a theoretical reappraisal"	Geneva, Switzerland.
15^{th} May 2013 University of Edinburgh , "The Industrial Revolution for Charm: From Sweatshops to	Edinburgh, UK.
Factories"	
21^{st} August 2012 IMSc , "Flavour in the Warped Extra Dimension"	Chennai, India.
9 th July 2012 IMSc , "Prospects of Charm"	Chennai, India.
21st May 2012 Università di Roma La Sapienza , "Charm Beyond the Standard Model"	Roma, Italy.
22^{nd} December 2011 University of Calcutta , "Charm Dynamics: the Today and the Tomorrow"	Calcutta, India.
21^{st} December 2011 University of Calcutta , "Little Higgs Models; and with T Parity too!!"	Calcutta, India.
19^{th} December 2011 SINP , "Yet another Era of Charm Physics"	Calcutta, India.
1^{st} December 2011 TIFR , "Charm: A Portal for ND"	Mumbai, India.
15^{th} November 2011 University of Notre Dame du Lac, "ND @ ND"	Notre Dame IN, USA.
22^{nd} March 2011 Argonne National Laboratory , "LHT and Charm: the Expected, the Unexpected and	Argonne IL, USA.

Kolkata, India.

East Lansing MI, USA.

 11^{th} January 2019 IACS, "Looking Inside Gluon Fusion Loops for Effective Higgs Couplings"

the Gamble"

OCTOBER 18, 2020 Ayan Paul

17th February 2011 **Michigan State University**, "LHT and Charm: Hopes from a Pocket Pair of Twos"

14 th February 2011	University of Illinois at Urbana Champaign, "LHT and Charm: Gambling with a Hand that Others have Folded"	Urbana IL, USA.
16 th December 2010	Fermilab, "LHT and Charm: Gambling in Standard Model?s Backyard"	Batavia IL, USA.
	University of Notre Dame du Lac, "Not LHT but LHT-like and beyond"	Notre Dame IN, USA.
	University of Notre Dame du Lac, "LHT @ Work: Unleashing the Jack in the Box"	Notre Dame IN, USA.
	SINP, "Simplicial Homology and its Application to Electrical and Electronic Circuits"	Calcutta, India.
		cateatta, mara.
CONTRIBUTED T	ALKS (17)	
12 th July 2019	EPS 2019, "EFT Fits for Higgs and EW @FCC-ee"	Ghent, Belgium.
	EPS 2019 , "Disentangling Higgs and EW Measurements at Future Lepton Colliders"	Ghent, Belgium.
7 th June 2019	WIN 2019, "Disentangling Higgs and EW Measurements at Future Lepton Colliders"	Bari, Italy.
23 rd May 2018	Planck 2018, "Flavour Physics meets Heavy Higgs Searches"	Bonn, Germany.
	Terascale Workshop , "Flavour Physics meets Heavy Higgs Searches"	Hamburg, Germany.
20		
7 th July 2017	EPS 2017 , " $SU(3)_F$ Breaking through Final State Interactions and CP Asymmetries	Venice, Italy.
	in $D o PP$ Decays"	
	EPS 2017, "Flavour Physics meets Heavy Higgs Searches"	Venice, Italy.
	ICHEP 2016 , " $b o s$ transitions in the Standard Model and Beyond"	Chicago IL, USA.
4 th August 2016	ICHEP 2016, "Higgs productions in the gluon fusion channel: a complete EFT	Chicago IL, USA.
	analysis"	
17 th June 2016	LHCP 2016 , "Test of the Standard Model and the Search for New Physics Using UTfit"	Lund, Sweden.
25 th August 2015	SUSY 2015 , "A critical examination of the $SU(3)$ framework in the hadronic decays	Tahoe City CA, USA.
	of D"	
	SUSY 2015, "An Introduction to HEPfit"	Tahoe City CA, USA.
24 th July 2015	EPS 2015 , "A critical examination of the $SU(3)$ framework in the hadronic decays of	Vienna, Austria.
	D"	
	EPS 2015 , "Questioning the anomalies in $B o K^* \mu^+ \mu^-$ decays"	Vienna, Austria.
	CHARM 2015 , "Charm loop contributions in $B o K^* \mu^+ \mu^-$ decays"	Detroit MI, USA.
	CHARM 2015, "A case for $SU(3)$ in $D \to PP$ decays"	Detroit MI, USA.
28° May 2014	$ \textbf{Planck 2014}, \text{``Probing Higgs couplings with high } p_T \text{ Higgs production''} $	Paris, France.
Workshops &	Conferences	
WOI KSIIOPS &	conferences	
November 2020		
November 2020	TOOLS 2020 , Tools for High Energy Physics and Cosmology.	Lyon, France.
	TOOLS 2020 , Tools for High Energy Physics and Cosmology. Beyond COVID-19 Workshop , Conference on COVID-19 Exit Strategies.	Lyon, France. Tempe, USA.
May 2020	TOOLS 2020 , Tools for High Energy Physics and Cosmology. Beyond COVID-19 Workshop , Conference on COVID-19 Exit Strategies. Charm 2020 , Conference on Flavour Physics.	Tempe, USA.
May 2020 May 2020	Beyond COVID-19 Workshop , Conference on COVID-19 Exit Strategies.	
May 2020 May 2020 April 2020	Beyond COVID-19 Workshop , Conference on COVID-19 Exit Strategies. Charm 2020 , Conference on Flavour Physics.	Tempe, USA. Mexico City, Mexico.
May 2020 May 2020 April 2020 October 2019	Beyond COVID-19 Workshop, Conference on COVID-19 Exit Strategies. Charm 2020, Conference on Flavour Physics. Quantum Universe Workshop, Conference on Particle Physics and Cosmology. Implications of LHCb measurements and future prospects 2019, Conference on Flavour Physics.	Tempe, USA. Mexico City, Mexico. Hamburg, Germany. Geneva, Switzerland.
May 2020 May 2020 April 2020 October 2019 September 2019	Beyond COVID-19 Workshop, Conference on COVID-19 Exit Strategies. Charm 2020, Conference on Flavour Physics. Quantum Universe Workshop, Conference on Particle Physics and Cosmology. Implications of LHCb measurements and future prospects 2019, Conference on Flavour Physics. Quantum field theory meets gravity, DESY Theory Workshop.	Tempe, USA. Mexico City, Mexico. Hamburg, Germany. Geneva, Switzerland. Hamburg, Germany.
May 2020 May 2020 April 2020 October 2019 September 2019 July 2019	Beyond COVID-19 Workshop, Conference on COVID-19 Exit Strategies. Charm 2020, Conference on Flavour Physics. Quantum Universe Workshop, Conference on Particle Physics and Cosmology. Implications of LHCb measurements and future prospects 2019, Conference on Flavour Physics. Quantum field theory meets gravity, DESY Theory Workshop. EPS 2019, Conference on High Energy Physics.	Tempe, USA. Mexico City, Mexico. Hamburg, Germany. Geneva, Switzerland. Hamburg, Germany. Ghent, Belgium.
May 2020 May 2020 April 2020 October 2019 September 2019 July 2019 June 2019	Beyond COVID-19 Workshop, Conference on COVID-19 Exit Strategies. Charm 2020, Conference on Flavour Physics. Quantum Universe Workshop, Conference on Particle Physics and Cosmology. Implications of LHCb measurements and future prospects 2019, Conference on Flavour Physics. Quantum field theory meets gravity, DESY Theory Workshop. EPS 2019, Conference on High Energy Physics. WIN 2019, International Workshop on Weak Interactions and Neutrino.	Tempe, USA. Mexico City, Mexico. Hamburg, Germany. Geneva, Switzerland. Hamburg, Germany. Ghent, Belgium. Bari, Italy.
May 2020 May 2020 April 2020 October 2019 September 2019 July 2019 June 2019 May 2019	Beyond COVID-19 Workshop, Conference on COVID-19 Exit Strategies. Charm 2020, Conference on Flavour Physics. Quantum Universe Workshop, Conference on Particle Physics and Cosmology. Implications of LHCb measurements and future prospects 2019, Conference on Flavour Physics. Quantum field theory meets gravity, DESY Theory Workshop. EPS 2019, Conference on High Energy Physics. WIN 2019, International Workshop on Weak Interactions and Neutrino. BSM with Precision Flavour Experiments, Workshop on BSM and Flavour physics.	Tempe, USA. Mexico City, Mexico. Hamburg, Germany. Geneva, Switzerland. Hamburg, Germany. Ghent, Belgium. Bari, Italy. Munich, Germany.
May 2020 May 2020 April 2020 October 2019 September 2019 July 2019 June 2019 May 2019	Beyond COVID-19 Workshop, Conference on COVID-19 Exit Strategies. Charm 2020, Conference on Flavour Physics. Quantum Universe Workshop, Conference on Particle Physics and Cosmology. Implications of LHCb measurements and future prospects 2019, Conference on Flavour Physics. Quantum field theory meets gravity, DESY Theory Workshop. EPS 2019, Conference on High Energy Physics. WIN 2019, International Workshop on Weak Interactions and Neutrino. BSM with Precision Flavour Experiments, Workshop on BSM and Flavour physics. Implications of LHCb measurements and future prospects 2018, Conference on	Tempe, USA. Mexico City, Mexico. Hamburg, Germany. Geneva, Switzerland. Hamburg, Germany. Ghent, Belgium. Bari, Italy.
May 2020 May 2020 April 2020 October 2019 September 2019 July 2019 June 2019 May 2019 October 2018	Beyond COVID-19 Workshop, Conference on COVID-19 Exit Strategies. Charm 2020, Conference on Flavour Physics. Quantum Universe Workshop, Conference on Particle Physics and Cosmology. Implications of LHCb measurements and future prospects 2019, Conference on Flavour Physics. Quantum field theory meets gravity, DESY Theory Workshop. EPS 2019, Conference on High Energy Physics. WIN 2019, International Workshop on Weak Interactions and Neutrino. BSM with Precision Flavour Experiments, Workshop on BSM and Flavour physics. Implications of LHCb measurements and future prospects 2018, Conference on Flavour Physics.	Tempe, USA. Mexico City, Mexico. Hamburg, Germany. Geneva, Switzerland. Hamburg, Germany. Ghent, Belgium. Bari, Italy. Munich, Germany. Geneva, Switzerland.
May 2020 May 2020 April 2020 October 2019 September 2019 July 2019 June 2019 May 2019 October 2018	Beyond COVID-19 Workshop, Conference on COVID-19 Exit Strategies. Charm 2020, Conference on Flavour Physics. Quantum Universe Workshop, Conference on Particle Physics and Cosmology. Implications of LHCb measurements and future prospects 2019, Conference on Flavour Physics. Quantum field theory meets gravity, DESY Theory Workshop. EPS 2019, Conference on High Energy Physics. WIN 2019, International Workshop on Weak Interactions and Neutrino. BSM with Precision Flavour Experiments, Workshop on BSM and Flavour physics. Implications of LHCb measurements and future prospects 2018, Conference on Flavour Physics. Beyond Standard Model: Where do we go from here?, Conference on High Energy	Tempe, USA. Mexico City, Mexico. Hamburg, Germany. Geneva, Switzerland. Hamburg, Germany. Ghent, Belgium. Bari, Italy. Munich, Germany.
May 2020 May 2020 April 2020 October 2019 September 2019 July 2019 June 2019 May 2019 October 2018	Beyond COVID-19 Workshop, Conference on COVID-19 Exit Strategies. Charm 2020, Conference on Flavour Physics. Quantum Universe Workshop, Conference on Particle Physics and Cosmology. Implications of LHCb measurements and future prospects 2019, Conference on Flavour Physics. Quantum field theory meets gravity, DESY Theory Workshop. EPS 2019, Conference on High Energy Physics. WIN 2019, International Workshop on Weak Interactions and Neutrino. BSM with Precision Flavour Experiments, Workshop on BSM and Flavour physics. Implications of LHCb measurements and future prospects 2018, Conference on Flavour Physics. Beyond Standard Model: Where do we go from here?, Conference on High Energy Physics.	Tempe, USA. Mexico City, Mexico. Hamburg, Germany. Geneva, Switzerland. Hamburg, Germany. Ghent, Belgium. Bari, Italy. Munich, Germany. Geneva, Switzerland. Firenze, Italy.
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August 2015	SUSY 2015, Conference on High Energy Physics.	Tahoe City CA, USA.
July 2015	EPS 2015 , Conference on High Energy Physics.	Vienna, Austria.
May 2015	CHARM 2015, Conference on Charm Physics.	Detroit MI, USA.
April 2015	2 nd B2TiP Workshop , Belle Flavour Factory Workshop.	Cracovia, Poland.
February 2015	New Physics at Belle II, Belle II meeting.	Karlsruhe, Germany.
December 2014	The landscape of Flavour Physics towards the high intensity era, Conference on	Pisa, Italy.
	Flavour Physics.	
April 2013	XII IFAE, Conference on High Energy Physics.	Cagliari, Italy.
July 2011	CTEQ Workshop 2011, Summer School on QCD Analysis and Phenomenology	Madison WI, USA.
June 2011	LHC – Fermilab HCP, Sixth School on Hadron Collider Physics.	Geneva, Switzerland.
May 2011	MadGraph Spring 2011, Workshop for MadGraph and FeynRules developers.	Batavia IL, USA.
May 2011	SLAC Summer Institute , "Nu: Nature?s Mysterious Messengers"	Menlo Park CA, USA.

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