Dr. Ayan Paul

Fellow @ DESY, Hamburg & Senior Scientist @ Humboldt Universität zu Berlin

Institut für Physik, Humbildt Universität zu Berlin, Notkestaße 15, 12489 Berlin, Germany.

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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`

Academic Appointments

DESY — *Hamburg, Germany*

Fellow — *November 2017 - PRESENT*

Delegated as *Senior Scientist* to the Humboldt Universität zu Berlin.

INFN, Sezione di Roma I — *Roma, Italy*

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*

PhD in Physics — *2007 - 2012*

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 — *2005 - 2007*

S. N. Bose National Center for Basic Sciences — *Calcutta, India*

M.Sc. in Physics — *2003 - 2005*

Presidency College, University of Calcutta — *Calcutta, India*

B.Sc. in Physics — *1999 - 2002*

Grants & Awards

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 du Lac	*Notre Dame, IN USA*
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, Govt. of India)	*Calcutta, 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	Open 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	ROOT, GSL, BOOST, BAT etc. (Used in `HEPfit`)
Functional Programming	Mathematica, MatLab, form and R
Analytic Methods	Bayesian Analysis, Markov Chain Monte Carlo, Statistical Inference, Multivariate Methods
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

Flavour Physics:

1. 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]
2. 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].
3. 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].
4. Belle II Collaboration (E. Kou (ed.) et. al.), *The Belle II Physics Book*. [arXiv:1808.10567].
5. 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 7^{th} 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*].
6. 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 6^{th} 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*].
7. 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].
8. 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].
9. 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].
10. A. Paul and D. Straub, *Constraints on new physics from radiative B decays*, JHEP**04** (2017) 027. [arXiv:1608.02556.]
11. 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].
12. 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].
13. 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].
14. I. I. Bigi and A. Paul, *On CP Asymmetries in Two-, Three- and Four-Body D Decays*. JHEP**03** (2012) 021. [arXiv:1110.2862].
15. 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].

16. 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].
17. 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].

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*. arXiv:1907.04311. *Submitted to JHEP for review.*
2. J. de Blas et. al., *CLIC Potential for New Physics*. CERN Yellow Rep. Monogr. Vol. 3 (2018). [arXiv:1812.02093].
3. S. Gori, C. Grojean, A. Juste, A. Paul, *Heavy Higgs Searches: Flavor Matters*. JHEP**01** (2018) 108. [arXiv:1710.03752].
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].
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].
6. A. Azatov and A. Paul, *Probing Higgs couplings with high p_T Higgs production*. JHEP**01** (2014) 014. [arXiv:1309.5273].

Up to date details of published articles can be found on ***inspirehep.net: Ayan.Paul.1***

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

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
– Quantum Mechanics
– Particle Physics
– Atomic Physics
– Statistical Mechanics

Private Tutoring

1999 – 2002 *Physics, Mathematics and Statistics* for high school students

Academic and Outreach Activities

2013 – Present **Referee for peer reviewed journals**, JHEP, Nucl. Phys. B and EPJ C
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 Spring Conference 2012**, Founding Organizer *Notre Dame IN, USA.*
2011-2012 **Graduate Physics Students Association**, 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 Bose National Center for Basic Sciences *Kolkata, India.*

Presentations

Plenary talks (4)

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)

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	**$4^{\mathbf{th}}$ B2TiP Workshop**, "Prospects of estimating hadronic uncertainties in $B \to K^*\gamma$"	*Pittsburgh, USA.*
9^{th} March 2016	**Towards the Theory of Flavour**, "Musings on the Future of Beauty and Charm Dynamics"	*Munich, Germany.*
29^{th} October 2015	**$3^{\mathbf{rd}}$ B2TiP Workshop**, "An Introduction to `HEPfit`"	*Tsukuba, Japan.*
27^{th} April 2015	**$2^{\mathbf{nd}}$ B2TiP Workshop**, "Tutorial on SusyFit"	*Krakow, Poland.*
27^{th} April 2015	**$2^{\mathbf{nd}}$ B2TiP Workshop**, "Diagrammatic approaches to understanding the SU(3) framework"	*Krakow, Poland.*
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 the Future"	*Pisa, Italy.*
18^{th} November 2011	**Workshop on Antiproton Physics at the Intensity Frontier**, "TAPAS and Charm Physics"	*Fermilab, Batavia, USA*

Seminars (21)

11^{th} January 2019	**IACS**, "Looking Inside Gluon Fusion Loops for Effective Higgs Couplings"	*Kolkata, India.*
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**, "$B \to K^*\mu^+\mu^-$ 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 Factories"	*Edinburgh, UK.*
21^{st} August 2012	**IMSc**, "Flavour in the Warped Extra Dimension"	*Chennai, India.*
9^{th} July 2012	**IMSc**, "Prospects of Charm"	*Chennai, India.*
21^{st} 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 the Gamble"	*Argonne IL, USA.*
17^{th} February 2011	**Michigan State University**, "LHT and Charm: Hopes from a Pocket Pair of Twos"	*East Lansing MI, USA.*
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.*
2^{nd} November 2010	**University of Notre Dame du Lac**, "Not LHT but LHT-like... and beyond"	*Notre Dame IN, USA.*
8^{th} December 2009	**University of Notre Dame du Lac**, "LHT @ Work: Unleashing the Jack in the Box"	*Notre Dame IN, USA.*
1^{st} July 2005	**SINP**, "Simplicial Homology and its Application to Electrical and Electronic Circuits"	*Calcutta, India.*

Contributed talks (17)

12^{th} July 2019	**EPS 2019**, "EFT Fits for Higgs and EW @FCC-ee"	*Ghent, Belgium.*
11^{th} July 2019	**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.*
28^{th} November 2017	**Terascale Workshop**, "Flavour Physics meets Heavy Higgs Searches"	*Hamburg, Germany.*
7^{th} July 2017	**EPS 2017**, "$SU(3)_F$ Breaking through Final State Interactions and CP Asymmetries in $D \to PP$ Decays"	*Venice, Italy.*

6^{th} July 2017	**EPS 2017**, "Flavour Physics meets Heavy Higgs Searches"	*Venice, Italy.*
6^{th} August 2016	**ICHEP 2016**, "$b \to s$ 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 analysis"	*Chicago IL, USA.*
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 of D"	*Tahoe City CA, USA.*
25^{th} August 2015	**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 D"	*Vienna, Austria.*
23^{rd} July 2015	**EPS 2015**, "Questioning the anomalies in $B \to K^* \mu^+ \mu^-$ decays"	*Vienna, Austria.*
20^{th} May 2015	**CHARM 2015**, "Charm loop contributions in $B \to K^* \mu^+ \mu^-$ decays"	*Detroit MI, USA.*
19^{th} May 2015	**CHARM 2015**, "A case for $SU(3)$ in $D \to PP$ decays"	*Detroit MI, USA.*
28^{th} May 2014	**Planck 2014**, "Probing Higgs couplings with high p_T Higgs production"	*Paris, France.*

Workshops & Conferences

October 2019	**Implications of LHCb measurements and future prospects 2019**, Conference on Flavour Physics.	*Geneva, Switzerland.*
September 2019	**Quantum field theory meets gravity** , DESY Theory Workshop.	*Hamburg, Germany.*
July 2019	**EPS 2019**, Conference on High Energy Physics.	*Ghent, Belgium.*
June 2019	**WIN 2019**, International Workshop on Weak Interactions and Neutrino.	*Bari, Italy.*
May 2019	**BSM with Precision Flavour Experiments**, Workshop on BSM and Flavour physics.	*Munich, Germany.*
October 2018	**Implications of LHCb measurements and future prospects 2018**, Conference on Flavour Physics.	*Geneva, Switzerland.*
September 2018	**Beyond Standard Model: Where do we go from here?**, Conference on High Energy Physics.	*Firenze, Italy.*
July 2018	**Higgs Hunting 2018**, Conference on High Energy Physics.	*Orsay-Paris, France.*
April 2018	**Planck 2018**, Conference on High Energy Physics.	*Bonn, Germany.*
November 2017	**Terascale Workshop**, Helmholtz Alliance Annual Meeting	*Hamburg, Germany.*
October 2017	**Implications of LHCb measurements and future prospects 2017**, Conference on Flavour Physics.	*Geneva, Switzerland.*
July 2017	**EPS 2017**, Conference on High Energy Physics.	*Venice, Italy.*
May 2017	**Beyond the LHCb Phase-1 Upgrade**, Conference on Flavour Physics.	*Isola d?Elba, Italy.*
December 2016	**CKM 2016**, Conference on Flavour Physics.	*Mumbai, India.*
September 2016	**CHARM 2016**, Conference on Charm Physics.	*Bologna, Italy.*
August 2016	**ICHEP 2016**, Conference on High Energy Physics.	*Chicago IL, USA*
June 2016	**LHCP 2016**, 4^{th} Annual Large Hadron Collider Physics Conference.	*Lund, Sweden.*
June 2016	**Flavour and Electroweak Symmetry Breaking**, Workshop on Flavour Physics.	*Anacapri, Italy.*
April 2016	**$4^{\mathbf{th}}$ B2TiP Workshop**, Belle Flavour Factory Workshop.	*Pittsburgh, USA.*
April 2016	**Higgs Tasting Workshop**, Workshop on Higgs Physics.	*Benasque, Spain.*
March 2016	**Toward The Theory of Flavour**, Munich, Germany.	*Benasque, Spain.*
April 2016	**$3^{\mathbf{rd}}$ B2TiP Workshop**, Belle Flavour Factory Workshop.	*Tsukuba, Japan.*
November 2015	**Implications of LHCb measurements and future prospects 2015**, Conference on Flavour Physics.	*Geneva, Switzerland.*
September 2015	**Gearing up for LHC13**, Workshop on physics at the LHC.	*Firenze, Italy.*
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	**$2^{\mathbf{nd}}$ 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 Flavour Physics.	*Pisa, Italy.*
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*

List of Teaching References

Morten Eskildsen	Professor, University of Notre Dame du Lac.	[email: eskildsen@nd.edu]
Umesh Garg	Professor, University of Notre Dame du Lac.	[email: garg@nd.edu]
Kevin Lannon	Associate Professor, University of Notre Dame du Lac.	[email: klannon@nd.edu]
Kathie Newmann	Professor, University of Notre Dame du Lac.	[email: newman@nd.edu]

Selected List of Research Collaborators

Aleksandr Azatov	Staff, Theoretical Particle Physics, SISSA.	[email: aleksandr.azatov@sissa.it]
Ikaros I. Bigi	Emeritus Professor, University of Notre Dame du Lac.	[email: ibigi@nd.edu]
Marco Ciuchini	Direttore, INFN Sezione di Roma III.	[email: marco.ciuchini@roma3.infn.it]
Enrico Franco	Primo ricercatore, INFN Sezione di Roma I.	[email: enrico.franco@roma1.infn.it]
Christophe Grojean	Lead Scientist, DESY, Hamburg (Professor, Humboldt Universität zu Berlin).	[email: christophe.grojean@desy.de]
Luca Silvestrini	Dirigente di ricerca, INFN Sezione di Roma I.	[email: luca.silvestrini@roma1.infn.it]