

Working Group and MC meeting of the COST Action CA16201

Unraveling new physics at the LHC through the precision frontier



About the COST Action CA16201

particleface

Germán Rodrigo









Krakow, 11-13 February, 2020



AIM OF THE ACTION

The aim of PARTICLEFACE is to shift the precision frontier in theoretical high-energy physics to a new level of accuracy and to create new resources of networking and innovation, with the quest for discovery as the main motivation.

It is designed to work through long-standing challenges on the basis of the most encouraging advances in Quantum Field Theory and related areas of pure mathematics and computer science by uniting the leaders of the field in a coherent effort.





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11.2016 54 proposers 13 + 1 NNC + 4 IPC = **18** 2 ITC (15%)



02.2018 110 researchers 18 + 1 NNC + 5 IPC = 246 ITC (33%)



02.2019 206 researchers 23 + 1 NNC + 5 IPC = 299 ITC (39%)



02.2019 280 researchers 24 + 2 NNC + 5 IPC = 3110 ITC (42%)



Country	Date		
Austria		18/07/2017	
Belgium		20/10/2017	
Bosnia and Herzegovina	ITC	23/03/2018	
Croatia	ITC	06/12/2017	
Denmark		13/11/2017	
Estonia	ITC	04/10/2017	
Finland		20/09/2017	
France		11/07/2017	
Germany		18/07/2017	
Greece		13/07/2017	
Hungary	ITC	11/07/2017	
Ireland		24/05/2018	
Italy		14/09/2017	
Latvia	ITC	18/10/2018	
Lithuania	ITC	04/04/2019	
Netherlands		10/08/2017	
Poland	ITC	26/07/2017	
Portugal	ITC	07/12/2017	
Slovenia	ITC	27/10/2017	
Spain		22/08/2017	

Country Date				
Sweden		14/03/2018		
Switzerland		11/07/2017		
Turkey IT	C	18/10/2018		
United Kingdom		14/07/2017		
Total: 24 - Ouorum 16				

Tota	l: 2	ֈ - Հ)uor	um	16
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Near Neighbour Countries	Country
Moscow State University	Russia
Joint Institute for Nuclear Research Dubna	Russia
Mohammed V University in Rabat	Morroco
International Partner Countries	Country
Universidad Autónoma de Sinaloa	Mexico
Universidad Nacional San Martín	Argentina
Pontificia Universidade Católica do Rio de Janeiro	Brazil
Universidade Estadual Paulista	Brazil
Universidade Federal do ABC	Brazil
Argonne National Laboratory	US
Florida State University	US
State University New York at Buffalo	US
Universidad Nacional de Colombia	Colombia





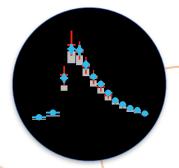
WG1: Innovative Quantum Field Theory







WG1: Innovative Quantum Field Theory



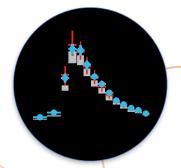
WG2: Precision Phenomenology







WG1: Innovative Quantum Field Theory



WG3: Future Colliders

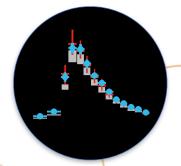
WG2: Precision Phenomenology







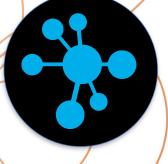
WG1: Innovative Quantum Field Theory





WG3: Future Colliders





WG4: Training and Networking



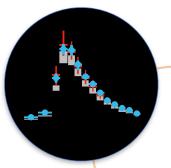




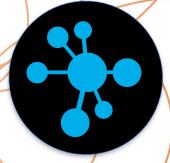
WG1: Innovative Quantum Field Theory



WG5: Inclusiveness,
Gender, Open Innovation
and Outreach



WG2: Precision Phenomenology



WG4: Training and Networking



WG3: Future Colliders

WG Leaders

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WORKING GROUPS



Claude Duhr (BE) Carsten Schneider (AT)

Malgorzata Worek (DE) Daniel de Florian (AR)

Janusz Gluza (PL) Radja Boughezal (US)

Sven-Olaf Moch (DE)

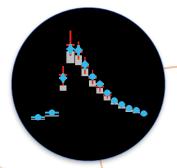
Gabor Somogyi (HU) Martin Gorbahn (UK)



WG1: Innovative Quantum Field Theory



WG5: Inclusiveness. Gender, Open Innovation and Outreach



WG2: Precision Phenomenology



WG4: Training and Networking



WG3: Future Colliders

GRANT PERIODS



MC1: start of the Action 24 October 2017

GP1: 1 November 2017- 30 April 2018

GP2: 1 May 2018 - 30 April 2019

GP3: 1 May 2019 - 30 April 2020

GP4: 1 May 2020 - 30 April 2021

GP5: 1 May 2021 - end of the Action 23 October 2021

- MC Meeting: at least one per Grant Period
- WG Meetings
- Training Schools
- STSM
- ITC Conference Grants

STSM Coordinator Vittorio del Duca (CH) 8 in GP1 17 in GP2 7 in GP3



15 in GP2 14 in GP3 so far

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Reports at M12, M24 completed M48 next

GP5: 1 May 2021 - end of the Action 23 October 2021

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- WG Meetings
- Training Schools
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ITC Conference Grants

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M48 next

GP5: 1 May 2021 - end of the Action 23 October 2021

Action activities within a single Grant Period

- MC Meeting: at least one per Grant Period
- WG Meetings
- Training Schools
- STSM

ITC Conference Grants

STSM Coordinator Vittorio del Duca (CH)

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Description

http://www.cost.eu/COST_Actions/ca/CA16201

Elementary particle physics is currently described by the Quantum Field Theory (QFT) called the Standard Model (SM). The SM, being an apparent success, is well known to be theoretically incomplete. Fundamental questions underlying the quantum structure of Yang-Mills theories are still unanswered. The SM does neither account for mass hierarchies nor for dark matter or dark energy. Most importantly it cannot remain valid to arbitrarily high energies and does not include gravity. After the confirmation of the Higgs boson's existence, entirely new questions come into the focus in the field.

The key to address those questions is to confront experimental data to theoretical predictions with the highest possible precision. The current LHC data do not show a clear signal of new physics. Therefore, any evidence is expected to appear as a gentle deviation from the 5M. Precision phenomenology is the necessary prerequisite for theory and collider physics in the coming years and it will be the driving element in the development of new and innovative tools and algorithms to perform a meaningful comparison between theory and data.

The aim of this Action is to shift the precision frontier to a new level of accuracy and to create new resources of networking and innovation, with the quest for discovery as the main motivation. It is designed to work through long-standing challenges on the basis of the most encouraging advances in QFT and related areas of pure mathematics and computer science by uniting the leaders of the field in a coherent effort.

Main Contacts



Dr German RODRIGO Action Chair +34963543674 german.rodrigo@csic.es



Prof Sven-Olaf MOCH Action Vice Chair +494089982227 sven-olaf.moch@desy.de



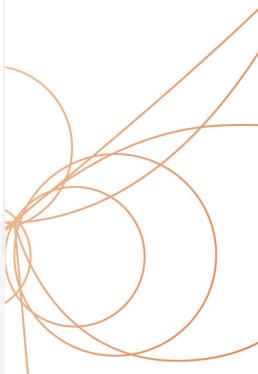
Dr Gudrun HEINRICH Science Communications Manager +498932354284 gudrun@mpp.mpg.de



Dr Fatima BOUCHAMA
Science officer
+3225333832
fatima.bouchama@cost.eu



Ms Milena STOYANOVA
Administrative officer
+3225333800
milena.stoyanova@cost.eu





CA16201 - Unraveling new physics at the LHC through the preciping frontier

Home > Browse Actions > Unraveling new physics at the LHC through the precision frontier

⊕ particleface.eu/

🕹 Downloads 🕾 Team

Description

Description

Parties

Management Committee

New profiles
Reimbursements
STSM, ITC Grants
applications ...

http://www.cost.eu/COST_Actions/ca/CA16201

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Actions Overview

Grant Periods

International Cooperation

STSM Applications

ITC Conference Grants

Main Contacts



Dr German RODRIGO Action Chair

german.rodrigo@csic.es



Prof Sven-Olaf MOCH
Action Vice Chair
+494089982227
sven-olaf.moch@desy.de



Dr Gudrun HEINRICH
Science Communications Manager
+498932354284
gudrun@mpp.mpg.de



Dr Fatima BOUCHAMA
Science officer
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fatima.bouchama@cost.eu



Ms Milena STOYANOVA
Administrative officer
+3225333800
milena.stoyanova@cost.eu

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- MC/WG Meetings: accommodation is reimbursed at flat rate, travel at real
 cost paid by the researcher (no travel agency!!) + meals not covered by LOS
- STSM and ITC Conference Grants are a fixed amount that covers or not the full cost, however, at the time of application you can specify travel and fee, if possible only accommodation (due to CSIC rules)
- Extra financial documents required by CSIC: you can trust Maria.J.Gracia@ific.uv.es



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NEW RULES FROM 1ST MAY

Fecha: 07/02/20 (14:01:36 CET)

De: Science Administration <Science.Administration@cost.eu>

Asunto: Simplification Reimbursement Rules



Dear MC Chairs, Dear Grant Holders,

We would like to inform you of some positive changes that would be coming into effect on 1 May 2020.

To provide the participants with greater autonomy and ease of use of the travel reimbursement rules, we are introducing a simplification of the reimbursement procedure for meetings and training schools.

Regarding Meetings:

The change of the reimbursement procedure implies that the flat rates for accommodation and for meals will be replaced by a Daily Allowance which is a package that includes accommodation, meals, and any type of local transport up to 100 km (taxi, car, local ferry, parking, public transport).

Plane tickets and any long-distance transport above 100 km will continue to be reimbursed as usual, based on the supporting documents (invoices, tickets,

receipts).

The level of the Daily Allowance per day is determined by the country where the event takes place. The rates can be consulted in the attached Daily Allowance table.

Regarding Training Schools:

The trainee's grant will be replaced by a reimbursement based on a Daily Allowance.

This means that both trainers and trainees will be reimbursed in accordance with their travel and accommodation expenditure. This would ensure a fair reimbursement to each trainee, independent of their country of origin. It would also guarantee that any long-distance travel would be reimbursed in full, without the trainee having to find additional source of funding.

The MC can decide to decrease the amount of the Daily Allowance or provide a different rate for the trainees and for trainers.





Events of the second Grant Period (May 2018-Apr 2019)

- BALATON 2018: Feynman Memorial Meeting, Balatonfüred, Hungary, 16-19 September 2018
- 1st Workshop on High Energy Theory and Gender, CERN, 26-28 September 2018
- Case studies WG1 and WG3 Meeting, Katowice, Poland, 1-5 October 2018
- WG2 Meeting on Next-to-Leading Power Corrections, Amsterdam, 5-7 November 2018
- PARTICLEFACE 2019: Working Group Meeting and Management Committee Meeting, Coimbra, 26-28 February 2019
- CAPP-PARTICLEFACE School, Hamburg, 25-29 March 2019





Events of the third Grant Period (May 2019-Apr 2020)

The following events have been approved in the past MC meeting:

- PREFIT School Precision meets EFT at the LHC: joint theoretical and experimental school of the COST Actions VBSCAN and PARTICLEFACE, Hamburg, 2-13 March 2020
- PARTICLEFACE 2020: Working Group Meeting and Management Committee Meeting, Krakow, 11-13 February 2020
- 15th Vienna Central European Seminar: Precision Physics at the LHC, Wien, 28-29 November 2019
- WG1 Meeting WorkStop/ThinkStart 3.0: paving the way to alternative NNLO strategies, Firenze, 4-6 November 2019
- School of Analytic Computing in Theoretical High-Energy Physics, Atrani, 2-11 October 2019

PARTICLEFACE supports also participation in the following events through_ITC Conference Grants: Ljubjiana 2019, Corfu 2019, MTTD 2019, Brda 2019 and PCOFT 2020.





PREFIT-SChool PRecision Effective Fleld Theory School 2-13 March 2020 at DESY, Hamburg

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Nobel-díjas fizikusra emlékeztek Füreden

Egy európal együttműködés keretében, pályázati forrásból rendeztek emlékkonferenciát Balatonfüreden, a száz éve született amerikai Nobel-díjas fizikus Richard Feynman tiszteletére. A zömében fiatal fizikusokból álló résztvevők a program részeként, felkeresték a Feynman által 1972-ben ültetett fát.





Alain Blondel @Babo_Ferney · 4 Oct 2018

wonderful hospitality by our Polish colleagues, and many lively questions!



PARTICLEFACE COST @PARTICLEFACE

On October 4th at 16:00, Prof. Alain Blondel from U. Geneva and CERN will deliver a public talk at the Polish Physical Society @USinKatowice on Fundamental questions and collider solutions @COSTprogramme @PARTICLEFACE ptf.us.edu.pl/wordpress/?p=7...









PARTICLEFACE COST @PARTICLEFACE · 11 Dec 2018

Our colleague Adam Kardos from .@DEgyetem has giving a public outreach talk at the Andras Mechwart Secondary School, Debrecen, on the life and times of Richard P. Feynman. Slides (in Hungarian) can be downloaded from shrek.unideb.hu/~adamkardos/ka... ... @COSTprogramme



Science Communication Manager Gudrun Heinrich (DE)



17 3





30 · LUNES 19 DE NOVIEMBRE DE 2018 · Consolidación Global 2021

INVESTIGADOR DE LA UNIVERSIDAD DE VALENCIA, ESPAÑA

VISITA LA FCFM PARA ESTABLECER RED DE COLABORACIÓN

considera necesario que los in-

vestigadores de la FCFM formen

puente de interacción con los

investigadores de la FCFM-UAS

es el doctor Roger Hernández

Pinto, quien colabora en pro-

yecto similar con Torres Boba-

dilla en el aspecto de fenome-

nología aplicada a la física para

Actualmente tra-

plitudes de scat-

tering en el Gran

colisionador de

Hadrones (LHC.

por sus siglas en

inglés) y refiere

de investigación

teórica sobre lo

como dispersión

que se conoce

de partículas

generar linea

baja en las am-

maquinas hadrónicas

Y es que comentó que el

parte de ella

herramientas. cálculos teóricos aplicados a física matemática para entender nuevas propiedades de las amplitudes de scottering, formando nuevos grupos de trabajo en red con investigadores de la Facultad de Ciencias Físico-Matemáticas de la Universidad Autónoma de Sinaloa (UAS), es el objetivo de visita de investigador de la Universidad de Valencia, España.

Conferencista también en el 3er Congreso Internacional de Física, Matemáticas y Electrónica, el doctor William Javier Torres Bobadilla, integrante del Instituto de Física Corpuscular, actualmente trabaja en las amplitudes de scattering en el Gran colisionador de Hadrones (LHC, por sus siglas en inglés) y refiere generar linea de investigación teórica sobre lo que se conoce como dispersión de partículas

Señaló que actualmente colabora en una red de investigadores de la Unión Europea cuyo propósito es fortalecer la investigación científica y técnica, financiando el establecimiento de redes de colaboración e inre investigadores, es COST y pende



Torres Bobadilla reiteró que es necesario la conjunción de investigadores para "atender nueva física, es decir, obtener nuevas partículas a partir del experimento (LHC)", indicó. En cuanto al tema de inves-

tigación que actualmente trabaja, William Javier Torres Bobadilla detalló que son cálculos de precisión en la producción del bosón de Higgs en un orden de precisión bastante alto, el bosón de Higgs es una partícula elemental propuesta en el modelo estándar de física de par-

JAIME MORALES

Visit to UA Sinaloa

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COIMBRA · UNIVERSIDADE

50 cientistas em Coimbra "à procura de nova Física"

por Notícias de Coimbra Fevereiro 23, 2019

IN SCIENCE & TECHNOLOGY

A famosa descoberta do bosão de Higgs no Large Hadron Collider (LHC), o maior acelerador de partículas do mundo, veio cimentar o Modelo Padrão como a teoria que descreve as interações fundamentais que regem as leis físicas.





"O LHC do CERN a máquina dos infinitos"

130 views • Mar 6, 2019

→ SHARE =+ SAVE

Nov 2019 · 30 days

TWEET HIGHLIGHTS

Top Tweet earned 451 impressions

We start with the WG1 meeting at the Galileo Galilei Institute @UNI_FIRENZE @comunefi three intensive days to discuss about new regularization schemes in quantum field theory at higher perturbative orders pic.twitter.com/9VRz093w02





View all Tweet activity

173 **9**5

View Tweet activity

Top mention earned 38 engagements



Germán Sborlini

@gfsborlini · Nov 28

Thanks to the COST Action PARTICLEFACE for supporting the "WorkStop/ThinkStart 3.0 Meeting", in the Galileo Galilei Institute!!! @PARTICLEFACE

indico.ific.uv.es/event/3737/ pic.twitter.com/r6QfIIGDfO



NOV 2019 SUMMARY

Tweets

Tweet impressions 1,677

Profile visits 142

Mentions

New followers



@PARTICLEFACE

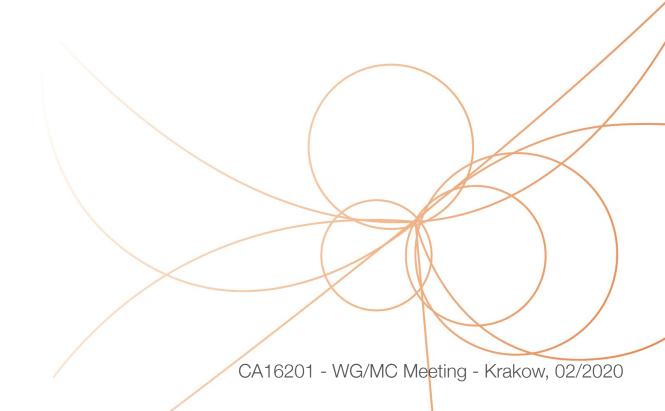
175 **9**9



ACKNOWLEDGMENTS

• Publications made as a result of STSM / ITC Conference Grant should include the following in the acknowledgements:

This work was supported by a STSM Grant / ITC Conference Grant from the COST Action CA16201 PARTICLEFACE.







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This work was supported by a STSM Grant / ITC Conference Grant from the COST Action CA16201 PARTICLEFACE.

 Acknowledgements are welcome in papers involving authors from at least two countries and produced as the outcome of the collaboration within the network

This article is based upon work from COST Action CA16201

PARTICLEFACE supported by COST (European Cooperation in Science and Technology)

They will appear in the Action's list of publications (Deliverables **D1-D4**). Also mention COST in oral presentations / media interviews related to the Action.



1. FindBounce: package for multi-field bounce actions

Victor Guada, Miha Nemevšek, Matevž Pintar. Feb 3, 2020. 30 pp. e-Print: arXiv:2002.00881 [hep-ph] | PDF

> References | BibTeX | LaTeX(US) | LaTeX(EU) | Harvmac | EndNote **ADS Abstract Service**

Snippets courtesy of arXiv

ns of FindBounce can be enumerated by evaluating PacletFind["FindBounce"]. More detailed information ... itle: FindBounce Program obtainable from: https://github.com/vguada is interested in a quick tryout of the FindBounce pa ... th/to/FindBounce-X.Y.Z.paclet"] This will permanently install the FindBounce package to the \$UserBa

Detailed record

2. Precise determination of α_s from relativistic quarkonium sum rules

Diogo Boito, Vicent Mateu. Jan 29, 2020. 35 pp.

IFT-UAM/CSIC-19-164

e-Print: arXiv:2001.11041 [hep-ph] | PDF

References | BibTeX | LaTeX(US) | LaTeX(EU) | Harvmac | EndNote

ADS Abstract Service

Snippets courtesy of arXiv

ction CA16201 PARTICLEFACE. DB thanks the University of Salamanca and VM thanks the University of Sã ... nt FPA2016-78645-P, the IFT Centro de Excelencia Severo Ochoa Program under Grant SEV-2012-0249, the ... D94 (2016) 034507, [1606.08798]. [11] P. Petreczky and J. H. Weber, Strong coupling constant and he ... D94 (2016) 054507, [1606.01002]. [13] D. Boito and V. Mateu, High-precision αs determination from b ... C40 (2016) 100001. [48] J. H. Kuhn, M. Steinhauser and C. Sturm, Heavy quark masses from sum rules

Detailed record

3. Doubly Charged Higgs Bosons and Spontaneous Symmetry Breaking at eV and TeV Scales

Janusz Gluza, Magdalena Kordiaczyńska (Silesia U. & Hradec Kralove U.), Tripurari Srivastava (Indian Inst. Tech., Kanpur & Ahmedabad, Phys. Res. Lab), 2020. Published in Symmetry 12 (2020) no.1, 153

DOI: 10.3390/sym12010153

EUROPEAN COOPERATION IN SCIENCE & TECHNOLOGY



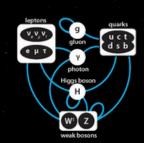
ABOUT PARTICLEFACE

PARTICLEFACE is a COST Action in the field of theoretical elementary particle and high energy physics. It involves an interdisciplinary community of more than 120 researchers from 27 countries with outstanding expertise in physics, mathematics and computer science.

THE STATE OF THE ART

Elementary particle physics is currently described by the Quantum Field Theory called the Standard Model (SM). The SM, being the greatest success in particle physics, is well known to be theoretically incomplete. Fundamental questions underlying its deep quantum structure are still unanswered. The SM accounts neither for the observed mass hierarchy among elementary particles, ranging from the mass of the very light and elusive neutrinos to the top quark which is as heavy as a gold atom, nor for dark matter or dark energy. Most importantly, it cannot remain valid to arbitrarily high energies and does not include gravity. After the confirmation of the Higgs boson's existence at the CERN's Large Hadron Collider (LHC) in 2012, entirely new questions come into focus in the field.

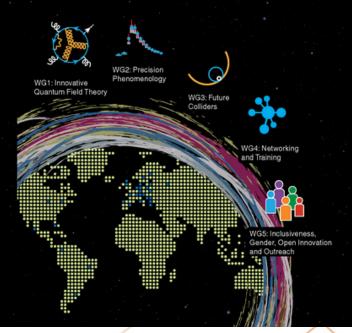
The key to address those questions is to confront experimental data with theoretical predictions of the highest possible precision. This strategy is driven by the quantum corrections describing the collisions of elementary particles at the highest energies.



THE CHALLENGE

The aim of PARTICLEFACE is to shift the current precision frontier in theoretical high energy physics to a new level of accuracy and to create new resources of networking and innovation, with the quest for discovery at the LHC and future high-energy colliders as the main motivation.

It is designed to work through long-standing challenges on the basis of the most encouraging advances in Quantum Field Theory and related areas of pure mathematics and computer science by uniting the leaders of the field in a coherent effort.



HOW

Quantum corrections in Quantum Field Theory are encoded by physicists through loop Feynman diagrams. These diagrams, invented by the Nobel Prize Richard P. Feynman, represent pictorially all the quantum processes that occur at the subatomic level in high-energy collisions, like the creation and annihilation of new particles from the vacuum. Loop Feynman diagrams translate into complex mathematical expressions from which physicists can predict the behaviour of elementary particles at colliders. The LHC, and in the future other colliders, is producing data of such a high quality that more and more complex diagrams are necessary to interpret correctly potential signals of new physics with sufficient theoretical precision, then challenging our current understanding of QFT and its underlying mathematical structure.

The Action is structured into five Working Groups

WG1: will develop innovative and cutting edge algorithms and methods in QFT and computer algebra in the search for new advances regarding the understanding of the underlying quantum and mathematical structure. Developments will be tested with proof-of-concept computations.

WG2: will work on precision phenomenology. Based on the achievements of WG1, it will provide theoretical predictions and tools in fully differential kinematics to analyse specific processes at the LHC and push the frontier regarding the sensitivity to new discoveries.

WG3: will assess the discovery potential of future high energy colliders, based on the results obtained in WG1 and WG2.

WG4: is responsible for the organisation of networking events, specialised training schools and short-term scientific missions for the exchange of new ideas and the training of the next generation of researchers in the field.

WG5: regards the implementation of the COST inclusiveness and gender policies, dissemination and exploitation of results and public engagement.







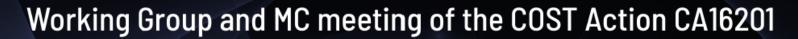
This information is collected for the purpose of checking eligibility for reimbursement of your expenses under the COST Vademecum rules (article 6.1.b of the GDPR) and, when the meeting takes place in COST premises, for safety purposes in compliance with our legal obligations under Belgian law (article 6.1.c of the GDPR). It will be kept for the duration of COST audit obligations as mentioned in the Action Grant Agreement and in the privacy notice for e-COST. It won't be transferred to any third party except in case of use for safety purposes where it will be transferred to the landlord of the premises and emergency services.

MEETING ATTENDANCE LIST

Meeting Title: PARTICLEFACE 2020				Start Date: 2020-02-11		End Date: 2020-02-13	
Meeting Reference: ECOST-MEETING-CA16201-110220-114994				Action Number: CA16201			
Grant Holder:			E-mail:	Tel:			
Nr	Participant	Country	Signature 11/02/2020	Signature 12/02/2020		Signature 13/02/2020	
1		ES					
2		HU					
3		DK					

Please, sign the attendance list, for this meeting and any forthcoming meeting





Unraveling new physics at the LHC through the precision frontier



particleface 2020

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