

# Leticia Cunqueiro Mendez

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## *Curriculum Vitae et Studiorum*

Associate Professor of Physics  
Sapienza Università di Roma  
Piazzale Aldo Moro 2, 00185 Roma, Italy

Languages: *Spanish (native), English (fluent), Italian (fluent), French (basic)*

## **Academic Appointments**

03/2022-	<b>Associate Professor</b> of Physics with Tenure, Sapienza University, Rome, Italy
09/2021- 03/2022	<b>PI of the ERC consolidator grant QCDHighdensityCMS,</b> <b>researcher</b> at Ecole Polytechnique, Paris
05/2018-08/2021	Joint position of <b>Research Assistant Professor</b> at UT Tennessee and Scientist at Oak Ridge National Laboratory, based at CERN.
07 2017-05 2018	<b>Scientist</b> at Oak Ridge National Laboratory
09/2015-09/2017	<b>CERN Project Associate</b> , University of Muenster, Germany
07/2013-09/2015	<b>CERN Research Physics Fellow</b>
01/2012-01/2013	<b>CERN-INFN fellow</b>
07/2011-07/2013	<b>Research Associate</b> to INFN Laboratori Nazionali di Frascati
09/2010-09/2011	<b>Postdoctoral researcher</b> at the University of Santiago de Compostela
09/2008-10/2010	<b>INFN postdoctoral fellowship for non-Italian citizens</b> at Laboratori Nazionali di Frascati, INFN.

## Qualifications

05/2023 National scientific qualification as full professor in the Italian higher education system in the call 2021/2023 for the disciplinary field of 02/A1 Experimental physics of fundamental interactions

## Education:

July 2005-July 2008 PhD in Theoretical Particle Physics, University of Santiago de Compostela (USC) Spain. PhD Thesis Title: "Interplay between initial and final state effects in high density matter". PhD advisors: Prof. C. Pajares, Prof. N. Armesto and Prof. C. A. Salgado. Cum Laude

October 2003-July 2005 MSc in Particle Physics, USC Spain. Thesis title: "Multiplicity fluctuations In the framework of percolation of strings". Thesis supervisors: Prof. C.Pajares and Prof.E. Ferreiro. votes: 10/10.

Sep 1999-Sep 2003 BSc in Particle Physics, University of Santiago de Compostela

## Most relevant scientific and coordination roles in the last 10 years

February 2022-2024 Member of the **RHIC/AGS Program Advisory Committee**  
Referee of the requests from the experimental collaborations at RHIC, Brookhaven National Laboratory, USA.

Jan 2022- Nov 2023 Member of the **PS and SPS Experiments Committee (SPSC) at CERN**  
Referee of the requests from the experimental collaborations at CERN on the basis of their physics interest and of the availability of the accelerators.  
Currently referee of AMBER, COMPASS, DIRAC, NA61, NA60+

Jan 2020-July 2021 **Deputy physics coordinator** of ALICE Collaboration  
Coordination and approval of physics results in a international collaboration of ~2000 people

Jan 2019- Jan 2020 **Convener of the group "Jets and Heavy Flavour" at the EIC**

	Yellow report, EICUG. Coordinating a group of ~150 people in the development of the physics case of jets and heavy flavours for the EIC, and the definition of the detector requirements.
Dec 2020-	Member of the <b>Scientific Advisory board for the Check groups's activities at RHIC</b> . Referee of the group performance.
Dec 2018-Jan 2020	<b>Council Member of the international collaboration JETSCAPE</b> . "JETSCAPE: The Jet Energy-loss Tomography with a statistically and Computationally Advanced Program Envelope Collaboration. <b>Convener of the Statistical Analysis Group</b>
June 2017-July 2019	<b>Convener of the Jet Analysis Group</b> at the ALICE Collaboration. Coordination of a group of ~150 people working on jet physics at ALICE. Responsible for the approval of physics results.
Jan 2016-Sept 2017	<b>System Run Coordinator of TRD</b> (Transition Radiation Detector) at the ALICE Collaboration. The TRD is the largest gas detector in the experiment and I was responsible for its operation and data taking.
July 2013-July 2015	<b>Convener of the Monte Carlo Group</b> at ALICE
Jan 2012-July 2015	ALICE convener for the Collider Cross Talks at CERN

## **Funding Information [grants as PI-principal investigator or co PI-investigator]**

2021-2026	PI of an ERC (QCDHighDensityCMS) consolidator grant 2020 to work at CMS hosted at Sapienza (5 year duration, 1.700.000 euro, starting on Sep.2021) European Research Council. GRANT_NUMBER:101002207
2019-2020	PI of an NSF grant (US) to work on Bayesian analysis of data-theory comparisons (70K doll.)
2005-2008	PhD grant (FPU grant) from the Spanish Ministry of Education

## Invited member of international scientific boards

Since 2023	Member of the <b>Nupec Infrastructure Working Group</b>
February 2022-2024	Member of the <b>RHIC/AGS Program Advisory Committee</b> Referee the requests from the experimental collaborations at RHIC, Brookhaven National Laboratory.
Jan 2022-2024	Member of the <b>PS and SPS Experiments Committee (SPSC) at CERN</b> Referee the requests from the experimental collaborations at CERN on the basis of their physics interest and of the availability of the accelerators. Currently referee of AMBER, COMPAS, DIRAC, NA61, NA60+
Since Dec 2020	Member of the <b>Scientific Advisory board for the Check groups's activities at RHIC</b>

## Teaching

2022-2024	Undergraduate course on General Physics for Pharmacists CTF Sapienza University
2022-2024	Undergraduate course on General Physics for Artificial Intelligence and computer science, Sapienza University
July 2022	"Jets as probes of the QGP", lecturer at the graduate school <a href="https://indico.in2p3.fr/event/26074/">https://indico.in2p3.fr/event/26074/</a>
March 2019	"Parton showers in vacuum and in medium", lecturer at Manigod winter Graduate School, France.

## Selected publications

The whole list of 406 published peer-reviewed publications can be found here: <https://inspirehep.net/authors/1042424>

### Selection of 17 publications of which I was (co)author (to which I gave a strong or main contribution):

16. [CMS Collaboration] Measurement of the primary Lund plane density in proton-proton collisions at  $\sqrt{s}=13$  TeV, <https://arxiv.org/pdf/2312.16343.pdf>
15. L.Cunqueiro, Daniel Pablos, Alba Soto-Ontoso, Martin Spousta, Adam Takacs, Marta Verweij, “Isolating perturbative QCD splittings in heavy-ion collisions”, <https://arxiv.org/abs/2311.07643>, submitted to PRD.
14. L.Cunqueiro, D.Napoletano, A.Soto-Ontoso, “Dead-cone searches in heavy-ion collisions with the jet tree” **Phys.Rev.D** **107** (2023) **9**, 094008, <https://arxiv.org/pdf/2211.11789.pdf>
13. L. Cunqueiro, A. Sickles, “Studying the QGP with Jets at the LHC and RHIC”, **Prog.Part.Nucl.Phys** **124** 103940 (2022), <https://arxiv.org/pdf/2110.14490.pdf>
12. [ALICE Collaboration] “Measurements of the groomed jet radius and groomed momentum fraction in pp and PbPb collisions at  $\sqrt{s_{NN}}=5.02$  TeV”, **Phys.Rev.Lett** **128**,102001 (2022), <https://arxiv.org/pdf/2107.12984.pdf>,
11. [ALICE Collaboration] “Direct observation of the dead cone effect in quantum chromodynamics”, **Nature** **605**, 7910 440-446 (2022). <https://arxiv.org/abs/2106.05713>  
<https://www.nature.com/articles/s41586-022-04572-w>
10. [ALICE Collaboration] “First measurement of N-subjettiness in central Pb-Pb collisions at 5 TeV”, arXiv:2105.04936, **JHEP** **10** (2021) 003  
<https://arxiv.org/abs/2105.04936>
9. [ALICE Collaboration] “*Exploration of jet substructure using iterative declustering in pp and Pb-Pb collisions at LHC energies*”, arXiv:1905.02512, **Phys.Lett.B** **802** (2020) 135227  
<https://arxiv.org/abs/1905.02512>
8. L.Cunqueiro, M.Ploskon, “*Searching for the dead cone effects with iterative declustering of heavy flavor jets*”, **Phys.Rev.D** **99** (2019) 7,074027, editor’s choice  
<https://arxiv.org/abs/1812.00102>

7.H.Andrews, L.Cunqueiro, K.Tywoniuk et al "Novel tools and observables for jet physics in heavy-ion collisions", **J.Phys.G 47 (2020) 6, 065102**  
<https://arxiv.org/pdf/1808.03689.pdf>

6.[ALICE Collaboration] "Medium modifications of the shape of small-radius jets in central Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV", **JHEP 10 (2018) 139**  
<https://arxiv.org/abs/1807.06854>

5.[ALICE Collaboration], "Measurement of jet quenching with semi-inclusive hadron-jet distributions in central at  $\sqrt{s_{NN}}=2.76$  TeV", **JHEP 09 (2015) 170**  
<https://arxiv.org/abs/1506.03984>

4.N.Armesto, L.Apolinario, L.Cunqueiro "An analysis of the influence of background subtraction and quenching on jet observables in heavy ion collisions", **JHEP 02 (2013) 022**  
<https://arxiv.org/abs/1211.1161>

3.[ALICE Collaboration], "Measurement of Event Background Fluctuations for Charged Particle Jet Reconstruction in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV", **JHEP 1203 (2012) 053**  
<https://arxiv.org/abs/1201.2423>

2.N.Armesto, G.Corcella, L.Cunqueiro, C.A.Salgado "Angular-ordered parton showers with medium-modified splitting functions", **JHEP 0911 (2009) 122**  
<https://arxiv.org/abs/0909.5118>

1.N.Armesto, L.Cunqueiro, C.A.Salgado,"QPYTHIA: a medium-modified implementation of final state radiation", **Eur. Phys. J. C63 (2009) 679**  
<https://arxiv.org/abs/0907.1014>

0.N. Armesto, L. Cunqueiro, C. A. Salgado and W. C. Xiang, "Medium-evolved fragmentation functions" **JHEP 0802 (2008) 048**  
<https://arxiv.org/abs/0710.3073>

### **Publications I gave a strong contribution to as member of the internal review committee (IRC)**

[ALICE Collaboration] "Jet-hadron correlations measured relative to the second order Event plane in Pb-Pb collisions at 2.76 TeV", **Phys.Rev.C 1-1, -64901 (2020)**  
<https://arxiv.org/abs/1910.14398>

[ALICE Collaboration] "Measurement of the production of charm jets tagged with D0 mesons in pp collisions at 7 TeV", **JHEP 1908 (2019) 133**  
<https://arxiv.org/abs/1905.02510>

[ALICE Collaboration] “[ALICE Collaboration] “*Measurement of charged jet production cross sections and nuclear modification in p-Pb collisions at  $\sqrt{s_{\text{NN}}} = 5.02$  TeV*”, **Phys.Lett.B 749 (2015) 68-81** <https://arxiv.org/pdf/1503.00681.pdf>

[ALICE Collaboration] “*First measurement of jet mass in PbPb and pPb collisions at the LHC*”, **Phys.Lett.B776 (2018) 249-264** <https://arxiv.org/pdf/1702.00804.pdf>

### **Public notes of which was main (co)author**

“Groomed jet radius and girth of jets recoiling against isolated photons in PbPb and pp collisions at 5.02 TeV”, <https://cds.cern.ch/record/2867449/files/HIN-23-001-pas.pdf>

“Measurement of the Lund Plane in pp collisions at 13 TeV at CMS”, CMS-PAS-SMP-22-007, <https://cds.cern.ch/record/2853467/files/SMP-22-007-pas.pdf>, <https://arxiv.org/abs/2312.16343>

“Measurement of the Lund Plane in pp collisions at 13 TeV at ALICE”, ALICE-PUBLIC-2021-002, [https://cds.cern.ch/record/2759456/files/ALICE\\_PN\\_LundPlanepp13TeV.pdf](https://cds.cern.ch/record/2759456/files/ALICE_PN_LundPlanepp13TeV.pdf)

“Measurements of the groomed jet radius and groomed momentum fraction in pp and PbPb collisions at  $\sqrt{s_{\text{NN}}}=5.02$  TeV”, ALICE-PUBLIC-2020-006 [http://cds.cern.ch/record/2725572/files/ALICE\\_public\\_note.pdf](http://cds.cern.ch/record/2725572/files/ALICE_public_note.pdf)

“Future High-energy pp programme with ALICE”, ALICE-PUBLIC-2020-005; CERN-LHCC-2020-018; LHCC-G-179., [http://cds.cern.ch/record/2724925/files/ALICE\\_HEpp\\_PublNote.pdf](http://cds.cern.ch/record/2724925/files/ALICE_HEpp_PublNote.pdf)

### **Other publications**

Altmann et al, “QCD challenges from pp to AA collisions -4th edition”, <https://arxiv.org/pdf/2401.09930.pdf>

Z.Citron et al, “Future opportunities for high-density QCD at the LHC with heavy-ion and proton Beams” <https://arxiv.org/abs/1812.06772>

A.Dainese et al, “*Heavy Ions at the Future Circular Collider*” <https://arxiv.org/abs/1605.01389>

[ALICE EMCal Collaboration], “*ALICE EMCal Physics Performance Report*” [physics.insdet] <https://arxiv.org/abs/1008.0413>

L.Cunqueiro, “*Jet production at RHIC and the LHC*”, Nucl.Phys.A967 (2017) 153-160 <https://arxiv.org/abs/1705.09839>

## Member of international projects and networks

- Oct 2010-Dec 2011      “Numerical and analytical studies of QCD at high densities at the LHC”,  
Università di Santiago de Compostela, project FPA2009-11951
- Jan 2012-Dec 2014      “Study of Strongly interacting matter”, network: Hadron Physics I3,  
INFN(Italia)-USC(Spagna)-Subatech(Francia)
- Jan 2012-Jan 2014      “Theory and phenomenology of particles, astroparticles, fields and  
strings”, GI-2033, University of Santiago de Compostela, Spain.

## Contributions to international conferences

- Dec 2023      Jet substructure: “Synergies between LHC and the EIC”, invited talk at Desy,  
Germany
- Jul 2023      “The dead cone: theoretical and experimental approaches in pp and heavy ion  
collisions”, **Lund Jet Workshop, CERN, *invited***
- May 2023      “Probing the QGP with high-pT probes”, plenary talk at **LHCP2023**, Belgrade
- Mar 2023      “*Dead-cone searches in heavy-ion collisions using the jet tree*”, **Hard Probes  
2023, Germany.**
- Nov 2022      “Heavy flavour jets”, **QCD@LHC2022** theory+experiment plenary talk, Paris,  
***invited***
- Ap 2022      “Jet production and suppression”, **Quark Matter 2022** experimental jet  
plenary review talk, Cracow, ***invited***
- Aug 2021      “Hard splittings and medium response”, talk at the **INT 2021** workshop  
Seattle, ***invited***
- Jun 2021      “Jet properties and substructure”, plenary QCD talk at **LHCP 2021**
- Jul 2020      “Inclusive and heavy flavour jet substructure in pp collisions with ALICE”,  
talk at the workshop Jet Observables at the EIC, Brookhaven National  
Laboratory, USA, ***invited***



- July 2020 "First direct measurement of the dead-cone effect at colliders with iterative declustering techniques in pp collisions at 13 TeV with ALICE", **ICHEP 2020**, Prague.
- Jul 2019 "Jet substructure in Heavy Ion Collisions", experimental review talk at **BOOST 2019, MIT, USA, invited**
- Jan 2019 "Searching for the dead cone using iterative declustering of heavy flavor jets", talk at JETSCAPE Conference, Texas A&M
- Jul 2018 "Jet substructure: Lund diagrams and iterative techniques in pp and PbPb collisions", talk at **BOOST 2018**, Jussieu
- Nov 2017 "ALICE status and Run2 results", review talk, US LUA, Fermilab, **invited**
- Oct 2017 "Jet substructure in ALICE", talk at 12<sup>th</sup> High  $p_T$  workshop in Bergen University, **invited**
- May 2017 "Challenges in experimental jet physics in heavy ions", talk at Hot QCD matters, Laboratori Nazionali di Frascati (LNF), **invited**
- Mar 2017 "Recent measurements of jet substructure in Pb-Pb collisions at ALICE", talk at the German Physics Society
- Feb 2017 "Jet production", experimental overview talk, **Quark Matter 2017**, Chicago, **invited**
- Sep 2016 "Jet substructure at the LHC", experimental overview talk, **Hard Probes 2016**, Wuhan, **invited**
- Mar 2016 "Jets in ALICE: from vacuum to QCD at high temperatures", group report at the German Physics Society Conference.
- Oct 2015 "Jet Shapes in pp and Pb-Pb collisions at ALICE", talk at **Quark Matter 2015**, Kobe
- Sep. 2015 "*Energy flow in jets*", review talk at **LHCP15**, Saint Petersburg
- Sep 2014 "*(p)QCD results in ALICE*", talk at **LHC days in Split**, Croatia
- Jul 2014 "*Jet circularity and correlations in the transverse plane*", talk at Jet Workshop MIT-LIP, Lisbon, **invited**
- Jul 2014 "*Measurement of jet production in central Pb-Pb collisions at  $\sqrt{s}=2.76$  TeV using semi-inclusive hadron-jet distributions*", **invited** presentation at 2<sup>nd</sup> Workshop on High  $p_T$  physics on hot and dense matter, LNF, Frascati.
- Mar2014 "*Jet measurements in ALICE*", talk at **50<sup>th</sup> Rencontres de Moriond**: QCD and

hadronic high energy interactions, La Thuile

- Nov 2013      "*Measurement of jet production in central Pb-Pb collisions at  $\sqrt{s}=2.76$  TeV using semi-inclusive hadron-jet distributions*", talk at **Hard Probes 13**, South Africa
- Jun 2013      "*Measurement of inclusive and recoil jets in central Pb-Pb collisions with ALICE at the LHC*", talk at **INPC2013**, Firenze
- Jul 2012      "*ALICE latest results*", plenary talk at Fundamental Physics Conference, Benasque, Spain , **invited**
- Aug 2012      "*Jet structure in 2.76 TeV Pb-Pb Collisions at ALICE*", talk at **Quark Matter 2012**, Washington
- Oct 2011      "*Jets in ALICE*", talk at **DIS2011**, Newport News
- Oct 2011      "*Jet Reconstruction at LHC*", review talk at LHC11, Trento, **invited**
- Oct 2011      "*Jet Physics with ALICE*", talk at 7th International Workshop on High- $p_T$  physics, Frankfurt
- Ap2011      "*Jet Physics in ALICE*", plenary talk in IFAE2011, Perugia
- Oct 2010      "*Jet Quenching: probing the hot dense matter*", talk at WISH2010, Catania, **invited**
- Aug 2010      "*qPythia/qHERWIG*", talk at "*Jets in Proton-Proton and Heavy Ion Collisions*" Prague University, **invited**
- Jun 2010      "*ALICE First Physics Results*", review talk at **Light Cone 2010** Valencia
- Oct 2009      "*Jet Physics in Heavy Ions*", invited talk at Quark Matter Italia, Roma
- Ap 2009      "*Quenched jets and algorithms*", talk at "*Workshop on Jet and Photon Physics and High Level Trigger*", Lawrence Berkeley National Laboratory, **invited**
- Mar2009      "*QPYTHIA*" talk given at the 4<sup>th</sup> International workshop High  $p_T$  physics at LHC 09", Prague University, **invited**
- Feb 2009      "*Monte Carlo for Jet Quenching*", talk at Workshop on high-density QCD at the LHC and in cosmic rays, Santiago de Compostela University (USC), **invited**
- Jun 2008      "*Medium evolution of jets: A Montecarlo*", talk at **Hard probes 2008**, A Toxa (Spain)

- Mar 2008      “*Jet Quenching*”, talk at “**43<sup>rd</sup> Rencontres de Moriond**: QCD and hadronic high energy interactions”, La Thuile
- Jul 2007      “*Medium-Modified Fragmentation Functions*”, talk at the European Physical Society Conference on High Energy Physics, Manchester (**EPS-HEP**)
- Mar 2007      “*Medium-modified fragmentation functions*”, talk at “**42<sup>nd</sup> Rencontres de Moriond**: QCD and hadronic high energy interactions”, La Thuile
- Feb 2006      “Multiplicity associated to high  $p_T$  events”, invited talk at “Workshop on hadronic physics at high energies”, USC

## Seminars and schools

I’ve given multiple seminars and lectures on phenomenology and experimental results various universities and laboratories. Some relevant examples are:

- September 2023      Seminar on jet substructure in heavy ion collisions at Desy, Germany
- June 2023            Seminar on jet substructure at MIT, USA
- February 2022        Seminar on the dead cone effect at Milano-Bicocca theory group
- July 2022            “Jets as probes of the QGP”, lecturer at the school  
<https://indico.in2p3.fr/event/26074/>
- June 2022            “Jet substructure, the Lund plane, the dead cone and other effects in QCD”, NPA seminar, Wright Lab Yale University, USA.
- October 2021         “Prospects for Heavy Ion Physics during Run3 and Run4”, LLR, Paris
- Sept 2019            “Recent results on jet substructure at ALICE”, CERN PH-seminar
- March 2019          “Parton showers in vacuum and in medium”, lecture at Manigod Winter School, France.
- January 2019         “Jets and jet substructure”, lecture at Texas University, USA
- May 2015            “Jet physics”, seminar at the Stefan Meyer Institute for Physics, Wien.
- December 2014       “Jets in ALICE: from vacuum to high-temperature QCD”, CERN PH-seminar
- September 2014     “ALICE Status Report”, 119th LHCC meeting, CERN, I was selected by Alice experiment to represent it in front of the LHC review panel.

- April 2013 "The hot and dense matter: QGP in Heavy Ion Collisions", seminar at LPSC ,Grenoble and at SUBATECH, Nantes France
- February 2009 "Quenched jets and jet algorithms", at the Heavy Ion Forum, CERN, I was invited to present original ideas on jet observables for jet quenching.

## **Mentoring and supervision**

Lorenzo Frosina, PhD student, Sapienza, November 2023-

Vangelis Vladimirov, postdoc under my ERC QCDHighDensity grant, Sapienza, June 2022-

Jelena Mijuskovic, postdoc under my ERC QCDHighDensity grant, Sapienza, November 2022-

Cristian Baldenegro, postdoc under my ERC QCDHighDensity grant , Sapienza, April 2021-

Bharadwaj Harikrishnan, PhD student under my ERC QCDHighDensity grant , Ecole Polytechnique, October 2021-

Raymond Ehlers, postdoc at ORNL 2020, former Yale PhD student, now postdoc at Berkeley National Laboratory

Laura Havener, postdoc at Yale, 2019, now assistant professor at Yale

Davide Caffarri, postdoc (fellow) at CERN, 2016, now in industry

Katharina Garner, PhD student from Muenster University, "b-jets and the Lund plane", 2019, now in industry

Nima Zhardosti, PhD student, from Birmingham University "N-Subjettiness in pp and heavy ion collisions", 2017, now a CERN LD staff.

Harry Andrews, PhD student from Birmingham University, "Soft drop in pp and in heavy ion collisions", 2017, now in industry.

Joao Seixas, co-supervised with Dr. Liliana Apolinario at LIP, Portugal, Masters Thesis, September 2021-October 2022 "Looking for coherence effects in the quark gluon plasma"

Jose Manuel Penin, bachelor thesis, "Quark and gluon jet tagging in Heavy Ion Backgrounds" University of Santiago de Compostela, 2015

From 2013, n.5 Cern Summer students

## **Reviewing and referee activities**

Reviewer of Journals: PRL, JHEP, Nuclear Physics A, EPJC

As a member of the PS and SPSC committee, I was referee of the following experiments at CERN: COMPASS, AMBER, NA61, NA60+

Chair/member of several internal review committees at ALICE and CMS on very different topics.

Occasional reviewer of NSF grants

Reviewer of UK's STFC grants (Ernest Rutherford Fellowships)

Nov 2019 External referee for the **EIC project at the IJCLab** scientific council

## **Invited member of the advisory/organising committee of international conferences**

Convener of the ICHEP24 "Heavy Ions" session in Prague

Convener of the DIS2024 "Future experiments" session in Grenoble, France

IAC of Boost Conference

IAC of Initial stages Conference

2022 Local and program committee DIS2022, Santiago de Compostela

2017 Organization of the workshop "Novel tools and observables for jet physics in heavy ion collisions", CERN <https://indico.cern.ch/event/625585/>

2019 Organization of the workshop "13<sup>th</sup> International Workshop on High-pT Physics in the RHIC/LHC era"

2019 Organization of the workshop "Jet Tools 2019", <https://indico.cern.ch/event/771644/>

Local organizer of the CERN-FERMILAB summer school 2019, CERN.

Chairperson of the HotQCD session in PANIC 2021

Member of the discussion panel at Boost 2021

ALICE convener for the Collider Cross Talks at CERN

## Member of PhD thesis committees

- 2022 PhD thesis of Dr. Smita Chackraborty, with title "Investigation of Quark Gluon Plasma-like signals with Lund string interactions", Lund University, Sweden.
- 2022 PhD thesis of Dr. Katharina Garner with title "b-jets and the Lund plane", Muenster University
- 2021 PhD thesis of Dr. Guillaume Fallegname, with title: "The B+c meson in heavy ion collisions with the CMS detector", Ecole Polytechnique 2021
2020. PhD thesis of Dr. Paul Caucal, with title: "Jet evolution in a QCD medium", IPHT Saclay 2020
- 2017 PhD thesis of Dr. Jan Rusnak with title : "Jet production at STAR", Prague University
- 2016 PhD thesis of Dr. Michal Vajzer with title: "Charged jet cross section in pp collisions at ALICE", Prague University, 2016

## Other academic activities

- 2024 Responsible Bando PCTO of the Science Faculties at Sapienza
- 2022/2023 Member of the ERC committee at the Department of Physics, Sapienza University
- 2023 Served as Controrelatore Laurea Triennale (3) at Sapienza University
- 2023 Served in the Committee for Laura Magistrate (2) at Sapienza University
- 2023 Served in the Committee for PhD (1) at Sapienza University



Rome, 29th December 2023

