

UNIVERSITÀ DEGLI STUDI DI MILANO  
selezione pubblica per n.\_1\_\_ posto/i di Ricercatore a tempo determinato in tenure track (RTT)  
per il settore concorsuale 02/A2 - Fisica Teorica delle Interazioni Fondamentali ,  
settore scientifico-disciplinare PHYS-02/A - Fisica teorica delle interazioni fondamentali, modelli,  
metodi matematici e applicazioni) presso il Dipartimento di Fisica Aldo Pontremoli  
(avviso bando pubblicato sulla G.U. n. D.R. 4011/2024 del 12/06/2024) Codice concorso 5577

**[Juan Manuel Cruz Martinez]**  
**CURRICULUM VITAE**

(N.B. IL CURRICULUM NON DEVE ECCEDERE LE 30 PAGINE E DEVE CONTENERE GLI ELEMENTI CHE IL CANDIDATO  
RITIENE UTILI AI FINI DELLA VALUTAZIONE.  
LE VOCI INSERITE NEL FACSIMILE SONO A TITOLO PURAMENTE ESEMPLIFICATIVO E POSSONO ESSERE INTEGRATE)

**INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)**

COGNOME	CRUZ MARTINEZ
NOME	JUAN MANUEL

**TITOLI**

**TITOLO DI STUDIO**

<b>Triennale</b>	Grado en Física - Universidad de Sevilla (Spagna, Laurea in Fisica, 4 anni) - 82.3%
07/2013	Titolo della tesi: Application of numerical resolution of a system with coupled differential equations to Quantum Scattering Problems with Internal Degrees of Freedom
<b>Magistrale</b>	Master in Advance Physics - Universitat de València (Spagna, Laurea Magistrale in Fisica, 1 anno) - 94.6%
07/2014	Titolo della tesi: Study of charge asymmetry in $t\bar{t}$ production through axigluons

**TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA  
DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO**

**DOTTORE DI RICERCA**

Ateneo	Durham University (Regno Unito)
Titolo	Next-to-Next-to-Leading Order QCD Corrections to Higgs Boson Production in Association with two Jets in Vector Boson Fusion
Supervisor	Nigel Glover
Data	27/09/2018 (4 anni)

**CONTRATTI DI RICERCA, ASSEGNI DI RICERCA O EQUIVALENTI**

(per ciascun contratto stipulato, inserire tipologia, università/ente, durata in anni / data di inizio e fine, ecc.)

Assegnista di Ricerca	Università degli Studi di Milano (dipartimento di Fisica) 4 anni (10/2018 - 09/2022)
Senior Research Fellow	CERN Theory Group 3 anni (10/2022 - 09/2025)

**ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO**

Attività di tutorato (Summer School) 16/07/2023 - 21/07/2023	Machine Learning Techniques - Advanced Artificial Intelligence for Precision High Energy Physics, organized by the University of Milan at the Lake Como School for Advanced Studies (6 ore)
Attività di tutorato (CMS collaboration) 17/02/2023	Tutorial for the CMS collaboration at CERN for the usage of the NNPDF code for the determination of PDFs using machine learning techniques (4 ore)
Attività di tutorato (laboratori) 10/2021 - 01/2022	Informatica - Università degli Studi di Milano 2021/2022 (36 ore)
Professore a contratto (esercitazioni) 10/2020 - 01/2021	Fisica Quantistica (modulo II) - Università degli Studi di Milano 2020/2021 (26 ore)
Attività di tutorato (laboratori) 10/2020 - 01/2021	Informatica - Università degli Studi di Milano 2020/2021 (36 ore)
Professore a contratto (esercitazioni) 03/2020 - 06/2020	Fisica Quantistica (modulo I) - Università degli Studi di Milano 2019/2020 (10 ore)
Attività di tutorato (laboratori) 10/2019 - 01/2020	Informatica - Università degli Studi di Milano 2019/2020 (31 ore)
Correzione esercizi & feedback 10/2017 - 01/2018	Discovery Skills - Durham University 2017/2018 (36 ore)

**DOCUMENTATA ATTIVITÀ DI FORMAZIONE O DI RICERCA PRESSO QUALIFICATI ISTITUTI ITALIANI O STRANIERI**

Outreach training 2024 (2 h)	CERN Training on outreach and scientific communication for CERN guides
Research Fellowship 10/2022 - ongoing (3 years)	CERN Senior Research fellowship
Cybersecurity course January-June 2021	Cisco Networking Academy Cisco Cybersecurity Scholarship
Assegno di Ricerca 10/2018 - 09/2022 (4 years)	Università degli Studi di Milano, dipartimento di fisica Research fellowship funded by the N3PDF project of Stefano Forte
Visiting Scholar 3 months, Oct-Dec 2016	University of Zurich Research stay as a visiting PhD student in the group of Thomas Ghermann
Summer School 1 week, August 2016	ExotHiggs (Zuoz, Switzerland organized by PSI) Summer School on Higgs and BSM Physics
Winter School 1 week, January 2016	YETI - Young Experimentalists and Theorists Institute (Durham, UK) Winter School: Prospects and Challenges for LHC Run II
Summer School 1 week, June 2015	Higgstools Summer School (Pré Saint-Didier, Val d'Aosta, organized by Università di Torino) Summer School on Higgs and BSM Physics
Outreach training April 2015, 3 days / 24 h	Higgstools First Young Researchers Meeting (org. by Durham university) Teamwork, communication and Media training
Tirocinio February-June 2014 (6 ECTS, 180 h)	IFIC Valencia & University of Valencia Project title: Experimental Limitations to Charge Asymmetry measurement in top quark pair production at hadron colliders
Tirocinio March-July 2013 (6 ECTS, 180 h)	Centro Nacional de Aceleradores (Centro Nazionale di Acceleratori) & University of Sevilla Project title: Development of computing tools for the analysis of Accelerator Mass Spectrometry results at the National Accelerators Center

## REALIZZAZIONE DI ATTIVITÀ PROGETTUALE

**AccHEP: Accurate and Accelerated High Energy Physics.** Ramón y Cajal Fellowship funded by the Spanish Ministry of Science, Innovation and Universities under the “Plan Estatal de Investigación Científica y Técnica y de Innovación”. Starting from 2025. Approx. budget: 250.000€. **Role of JCM: PI.**

**Unravelling Proton Structure with Hyperoptimised Machine Learning.** ASDI.2020.004, Call for Proposals “Accelerating Scientific Discovery (ASDI 2020), Netherlands eScience Center, budget 252.642,00€ (personnel) + 252.642,00€ (FTE engineers). PI: Juan Rojo. **Role of JCM: external researcher and advisor.**

**NNPDF (Proton structure for discovery at the Large Hadron Collider).** Funded under H2020 EXCELLENT SCIENCE - European Research Council. 2017-2023. Grant agreement ID: 740006. Budget: € 1.602.862,00. PI: Stefano Forte. **Role of JCM: researcher.**

**Higgstools: The Higgs quest - exploring electroweak symmetry breaking at the LHC.** Funded under FP7-PEOPLE-2012-ITN - Marie-Curie Action: “Initial Training Networks”. 2014-2017. Grant agreement ID: 316704. Budget: € 3.738.154,19. PI: Nigel Glover. **Role of JCM: researcher.**

**New hardware for HEP.** Funded under the “Linea 2-A” program of the University of Milan. 2019-2020. €6.000 PI: Stefano Carrazza. **Role of JCM: co-PI.**

**Automate Monte Carlo simulation on hardware accelerators.** Funded under the “Linea 2-A” program of the University of Milan. 2021-2022. €15000 PI: Stefano Carrazza. 2021-2022. **Role of JCM: researcher.**

## ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI CENTRI O GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI O PARTECIPAZIONE AGLI STESSI

Code coordinator of the NNPDF collaboration from February 2024. The NNPDF collaboration is formed by a group of about 20 people between students, postdocs and faculty in several different universities across Europe. **Role:** Management of projects, distribution of tasks/people and mentoring of junior colleagues.

Coordinator of technical tasks as an external advisor for the ASDI project “Unravelling Proton Structure with Hyperoptimised Machine Learning” from 2020 to 2024. **Role:** Coordination and management of a team of 4 engineers based at the eScience Center of the University of Amsterdam tasked with the improvement of various technical aspects of the *n3fit* package.

## ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

(inserire titolo congresso/convegno, data, durata in giorni/ore, ente organizzatore, ecc.)

April 2024 5 days	<b>DIS2024</b> Grenoble (France). Contributed. <b>Title:</b> <u>Phenomenological implications of modern PDF determinations.</u>
March 2024 3 days	<b>NNLOJET Collaboration meeting</b> Milano-Biccoca (Italy). Invited. <b>Title:</b> <u>NNLO Grids in NNPDF from NNLOJET</u>
December 2023 3 days	<b>Milan Christmas Meeting 2023.</b> Milano Statale (Italy). Contributed. <b>Title:</b> <u>Towards a framework for GPU event generators.</u>

December 2023	<b>Collider Cross-Talk.</b> CERN. Invited seminar. Title: <u>Why are we still talking about PDFs?</u>
November 2023 1 day	<b>PDF4LHC 2023</b> CERN (Switzerland). Contributed. Title: <u>Implications of NNPDF4.0 for LHC physics</u>
November 2023 2 days	<b>Event generator' and N(n)LO codes' acceleration.</b> CERN (Switzerland). Invited. Title: <u>Towards a framework for GPU event generators.</u>
September 2023 2 days	<b>FPF Theory Workshop.</b> CERN (Switzerland). Invited. Title: <u>Physics with Muons at the FPF (SM pow)</u>
May 2023 5 days	<b>LHCP11 2023.</b> Belgrade (Serbia). Invited. Title: <u>Recent results on PDF extractions.</u>
May 2023	<b>Seminar at Brookhaven National Lab. (USA, Virtual)</b> Brookhaven National Lab (USA). Invited Seminar. Title: <u>NNPDF4.0 and the path to reliable uncertainties</u>
November 2022 5 days	<b>QCD@LHC 2022.</b> IJCLab Orsay (France). Contributed. Title: <u>Theory developments in PDF determination.</u>
September 2022	<b>Seminar at Nikhef</b> Amsterdam (The Netherlands) Invited seminar. Title: <u>GPU accelerated particle physics</u>
July 2022 10 days	<b>41th International Conference on High Energy Physics, ICHEP</b> Bologna (Italy). Contributed. Title: <u>MadFlow: automating Monte Carlo simulation on GPU for HEP.</u>
July 2022	<b>Seminar at Freiburg University</b> Freiburg (Germany). Invited seminar. Title: <u>Facilitating GPU acceleration for Monte Carlo simulations</u>
May 2022 5 days	<b>Transversity 2022.</b> Pavia (Italy). Invited. Title: <u>Machine Learning in PDF determination: NNPDF4.0.</u>
May 2022	<b>Seminar at the University Observatory of Munich</b> Munich (Germany). Invited seminar. Title: <u>Accelerating Monte Carlo simulations across hardware platforms</u>
November 2021	<b>Dalitz Series Seminar.</b> Oxford (UK). Invited Seminar. Title: <u>NNPDF4.0: the path to proton structure at 1% accuracy</u>
November 2021 5 days	<b>The 2021 International Workshop on the High Energy Circular Electron Positron Collider.</b> Nanjing (China). Invited. Title: <u>GPU acceleration in High Energy Physics.</u>

June 2021	<b>Seminar at KIT (Virtual)</b> KIT Karlsruhe (Germany). Invited seminar. <b>Title:</b> <u>Towards a GPU future for particle physics Monte Carlo simulations</u>
May 2021 5 days	<b>25th International Conference on Computing in High-Energy and Nuclear Physics (vCHEP)</b> Virtual. Invited. <b>Title:</b> <u>MadFlow: towards the automation of Monte Carlo simulation on GPU for particle physics</u>
February 2021	<b>Seminar at IFIC Valencia</b> Virtual. Invited Seminar. <b>Title:</b> <u>PDF determination with a quantum hardware</u>
October 2020 1 day	<b>Generator Infrastructure and Tools Subgroup Meeting</b> CERN (Virtual). Invited Seminar. <b>Title:</b> <u>VegasFlow and PDFFlow: accelerating Monte Carlo simulation across multiple devices</u>
August 2020 10 days	<b>40th International Conference on High Energy Physics, ICHEP Prague 2020.</b> Virtual. Invited. <b>Title:</b> <u>VegasFlow: accelerating Monte Carlo simulation across plat- forms.</u>
October 2019 5 days	<b>Artificial Intelligence for Science, Industry and Society Symposium (AISIS 2019)</b> Ciudad de Mexico (Mexico). Contributed. <b>Title:</b> <u>Studying the parton content of the proton with deep learning models.</u>
September 2019 3 days	<b>James Stirling Memorial Conference \&amp; PDF4LHC</b> Durham (UK). Contributed. <b>Title:</b> <u>Methodological improvements in PDF determination</u>
July 2019 5 days	<b>QCD@LHC 2019.</b> Buffalo, NY (USA). Contributed. <b>Title:</b> <u>Towards a new generation of PDFs with deep learning models.</u>
May 2018 5 days	<b>Loops and Legs in Quantum Field Theory 2018.</b> St. Goar (Germany). Contributed. <b>Title:</b> <u>NNLO corrections to VBF Higgs boson production.</u>
September 2017 5 days	<b>HiggsTools Final Meeting</b> Durham (UK). Contributed. <b>Title:</b> <u>NNLO phenomenology with Antenna Subtraction</u>
February 2021	<b>Seminar at IFIC Valencia</b> Valencia (Spain). Invited Seminar. <b>Title:</b> <u>Higgs phenomenology with antenna subtraction</u>
April 2016 4 days	<b>HiggsTools Second Annual Meeting</b> Granada (Spain). Contributed. <b>Title:</b> <u>NNLO calculations for Higgs processes</u>
April 2015 3 days	<b>HiggsTools First Annual Meeting</b> Freiburg (Germany). Contributed. <b>Title:</b> <u>NNLO predictions for Higgs production at LHC</u>

**CONSEGUIMENTO DI PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI PER ATTIVITÀ DI RICERCA**  
(inserire nome e motivazione del premio, data, ente erogatore, ecc.)

06/2024. Ramón y Cajal Fellowship by the Spanish Ministry of Science, Innovation and Universities (250k€)

12/2023. Abilitazione scientifica nazionale II fascia (settore 02/A2) by the Ministero dell'Università e della Ricerca

02/2022. Professor Lector: "Lecturer" level recognized by the Agency for the Quality of the University system of Catalonia

07/2021. Profesor Ayudante Doctor: "Lecturer" level recognized by the Spanish National Agency for Quality Assessment and Accrediation (ANECA)

**PRODUZIONE SCIENTIFICA**

**PUBBLICAZIONI SCIENTIFICHE**

(per ciascuna pubblicazione indicare: nomi degli autori, titolo completo, casa editrice, data e luogo di pubblicazione, codice ISBN, ISSN, DOI o altro equivalente)

**The path to N3LO parton distributions**  
NNPDF Collaboration. R. Ball, A. Barontini, A. Candido, S. Carrazza, J. Cruz-Martinez, L. Del Debbio, S. Forte, T. Giani, F. Hekhorn, Z. Kassabov, N. Laurenti, G. Magni, E. Nocera, T. Rabemananjara, J. Rojo, C. Scwhan, R. Stegeman, M. Ubiali  
Eur.Phys.J.C 84, 659 (2024)  
[10.1140/epjc/s10052-024-12891-7](https://doi.org/10.1140/epjc/s10052-024-12891-7)

**Determination of the theory uncertainties from missing higher orders on NNLO parton distributions with percent accuracy**  
NNPDF Collaboration. R. Ball, A. Barontini, A. Candido, S. Carrazza, J. Cruz-Martinez, L. Del Debbio, S. Forte, T. Giani, F. Hekhorn, Z. Kassabov, N. Laurenti, G. Magni, E. Nocera, T. Rabemananjara, J. Rojo, C. Scwhan, R. Stegeman, M. Ubiali  
Eur.Phys.J.C 84, 517 (2024)  
[10.1140/epjc/s10052-024-12772-z](https://doi.org/10.1140/epjc/s10052-024-12772-z)

**Photons in the proton: implications for the LHC**  
NNPDF Collaboration. R. Ball, A. Barontini, A. Candido, S. Carrazza, J. Cruz-Martinez, L. Del Debbio, S. Forte, T. Giani, F. Hekhorn, Z. Kassabov, N. Laurenti, G. Magni, E. Nocera, T. Rabemananjara, J. Rojo, C. Scwhan, R. Stegeman, M. Ubiali  
Eur.Phys.J.C 84, 540 (2024)  
[10.1140/epjc/s10052-024-12731-8](https://doi.org/10.1140/epjc/s10052-024-12731-8)

**Intrinsic charm quark valence distribution of the proton**  
R. Ball, A. Candido, J. Cruz-Martinez, S. Forte, T. Giani, F. Hekhorn, G. Magni, E. Nocera, J. Rojo, R. Stegeman  
Phys.Rev.D 109 (2024)  
[10.1103/PhysRevD.109.L091501](https://doi.org/10.1103/PhysRevD.109.L091501)

**The LHC as a Neutrino-Ion Collider**  
J. Cruz-Martinez, M. Fieg, T. Giani, P. Krack, T. Mäkelä, T. Rabemananjara, J. Rojo  
Eur.Phys.J.C 84, 369 (2024)  
[10.1140/epjc/s10052-024-12665-1](https://doi.org/10.1140/epjc/s10052-024-12665-1)

**Multi-variable integration with a variational quantum circuit**  
J. Cruz-Martinez, M. Robbiati, S. Carrazza  
Quantum Sci.Technol. 9 (2024)  
[10.1088/2058-9565/ad5866](https://doi.org/10.1088/2058-9565/ad5866)

**Pineline: Industrialization of High-Energy Theory Predictions**  
A. Barontini, A. Candido, J. Cruz-Martinez, F. Hekhorn, C. Schwan  
Computer Physics Communications (2024) Vol. 297  
[10.1016/j.cpc.2023.109061](https://doi.org/10.1016/j.cpc.2023.109061)

<b>Event Generators for High-Energy Physics Experiments</b> Snowmass white paper. 211 authrs. J. Campbell et al.	SciPost Phys. 16 (2024) <a href="https://doi.org/10.21468/SciPostPhys.16.5.130">10.21468/SciPostPhys.16.5.130</a>
<b>Extending MadFlow: device-specific optimization</b> S. Carrazza, J. Cruz-Martinez, G. Palazzo	PoS ICHEP2022, 207 (2022) <a href="https://doi.org/10.22323/1.414.0207">10.22323/1.414.0207</a>
<b>Evidence for intrinsic charm quarks in the proton</b> R. Ball, A. Candido, <a href="#">J. Cruz-Martinez</a> , S. Forte, T. Giani, F. Hekhorn, K. Kudashkin, G. Magni, J. Rojo	Nature 608, 483-487 (2022) <a href="https://doi.org/10.1038/s41586-022-04998-2">10.1038/s41586-022-04998-2</a>
<b>Snowmass 2021 Whitepaper: Proton Structure at the Precision Frontier</b> Snowmass white paper. 57 authors. S. Amoroso et al	Acta Phys.Polon.B 53 (2022) <a href="https://doi.org/10.5506/APhysPolB.53.12-A1">10.5506/APhysPolB.53.12-A1</a>
<b>A data-based parametrization of parton distribution functions</b> S. Carrazza, <a href="#">J. Cruz-Martinez</a> , R. Stegeman	Eur.Phys.J.C 82, 163 (2022) <a href="https://doi.org/10.1140/epjc/s10052-022-10136-z">10.1140/epjc/s10052-022-10136-z</a>
<b>The path to proton structure at 1% accuracy</b> NNPDF Collaboration. R. Ball, S. Carrazza, <a href="#">J. Cruz-Martinez</a> , L. Del Debbio, S. Forte, T. Giani, S. Iranipour, Z. Kassabov, J. Latorre, E. Nocera, R. Pearson, J. Rojo, C. Scwhan, R. Stegeman, M. Ubiali, C. Voisey, M. Wilson	Eur. Phys. J. C 82, 428 (2022) <a href="https://doi.org/10.1140/epjc/s10052-022-10328-7">10.1140/epjc/s10052-022-10328-7</a>
<b>An open-source machine learning framework for global analyses of parton distributions</b> NNPDF Collaboration. R. Ball, S. Carrazza, <a href="#">J. Cruz-Martinez</a> , L. Del Debbio, S. Forte, T. Giani, S. Iranipour, Z. Kassabov, J. Latorre, E. Nocera, R. Pearson, J. Rojo, C. Scwhan, R. Stegeman, M. Ubiali, C. Voisey, M. Wilson	Eur. Phys. J. C 81, 958 (2021) <a href="https://doi.org/10.1140/epjc/s10052-021-09747-9">10.1140/epjc/s10052-021-09747-9</a>
<b>A comparative study of Higgs boson production from vector-boson fusion</b> A. Buckley, X. Chen, <a href="#">J. Cruz-Martinez</a> , S. Ferrario Ravasio, T. Gehrmann, N. Glover, S. Höche, A. Huss, J. Huston, J. Lindert, S. Plätzer and S. Schönherr	JHEP 11, 108 (2021) <a href="https://doi.org/10.1007/JHEP11(2021)108">10.1007/JHEP11(2021)108</a>
<b>MadFlow: automating Monte Carlo simulation on GPU for particle physics processes</b> S. Carrazza, <a href="#">J. Cruz-Martinez</a> , M. Rossi and M. Zaro	Eur. Phys. J. C 81, 656 (2021) <a href="https://doi.org/10.1140/epjc/s10052-021-09443-8">10.1140/epjc/s10052-021-09443-8</a>
<b>Compressing PDF sets using generative adversarial networks</b> S. Carrazza, <a href="#">J. Cruz-Martinez</a> , T. Rabemananjara	Eur.Phys.J.C 81, 530 (2021) <a href="https://doi.org/10.1140/epjc/s10052-021-09338-8">10.1140/epjc/s10052-021-09338-8</a>
<b>Future tests of parton distributions</b> <a href="#">J. Cruz-Martinez</a> , S. Forte, E. Nocera	Acta Phys.Polon.B 52, 243 (2021) <a href="https://doi.org/10.5506/APhysPolB.52.243">10.5506/APhysPolB.52.243</a>
<b>Determining the proton content with a quantum computer</b> A. Pérez-Salinas, <a href="#">J. Cruz-Martinez</a> , AA Alhajri, S. Carrazza	Phys.Rev.D (2021) Vol. 103 Issue 3 <a href="https://doi.org/10.1103/PhysRevD.103.034027">10.1103/PhysRevD.103.034027</a>

<b>PDFFlow: Parton distribution functions on GPU</b> S. Carrazza, <a href="#">J. Cruz-Martinez</a> , M. Rossi	Computer Physics Communications (2021) Vol. 264 <a href="https://doi.org/10.1016/j.cpc.2021.107995">10.1016/j.cpc.2021.107995</a>
<b>Constructing PineAPPL grids on hardware accelerators</b> S. Carrazza, <a href="#">J. Cruz-Martinez</a> , C. Schwan	PoS LHCP2020, 057 (2021) <a href="https://doi.org/10.22323/1.382.0057">10.22323/1.382.0057</a>
<b>VegasFlow: accelerating Monte Carlo simulation across multiple hardware platforms</b> S. Carrazza, <a href="#">J. Cruz-Martinez</a>	Comput.Phys.Commun. 254 (2020) <a href="https://doi.org/10.1016/j.cpc.2020.107376">10.1016/j.cpc.2020.107376</a>
<b>Studying the parton content of the proton with deep learning models</b> S. Carrazza, <a href="#">J. Cruz-Martinez</a> , R. Stegeman	PoS AISIS2019, 008 (2020) <a href="https://doi.org/10.22323/1.372.0008">10.22323/1.372.0008</a>
<b>Towards a new generation of parton densities with deep learning models</b> S. Carrazza, <a href="#">J. Cruz-Martinez</a>	Eur. Phys. J. C 79, 676 (2019) <a href="https://doi.org/10.1140/epjc/s10052-019-7197-2">10.1140/epjc/s10052-019-7197-2</a>
<b>Second-order QCD effects in Higgs boson production through vector boson fusion</b> <a href="#">J. Cruz-Martinez</a> , T. Gehrmann, N. Glover and A. Huss	Physics Letters B (2018) Vol. 781, 672 <a href="https://doi.org/10.1016/j.physletb.2018.04.046">10.1016/j.physletb.2018.04.046</a>
<b>Jet cross sections and transverse momentum distributions with NNLOJET</b> X. Chen, <a href="#">J. Cruz-Martinez</a> , J. Currie, T. Gehrmann, N. Glover, T. Morgan, J. Niehues, D. Walker, R. Gauld, A. Gehrmann-De Ridder, A. Huss and J. Pires	PoS RADCOR2017, 074 (2018) <a href="https://doi.org/10.22323/1.290.0074">10.22323/1.290.0074</a>
<b>The HiggsTools handbook: a beginners guide to decoding the Higgs sector</b> M. Boggia, <a href="#">J. Cruz-Martinez</a> , H. Frellesvig, N. Glover, R. Gomez-Ambrosio, G. Gonella, Y. Haddad, A. Ilnicka, S. Jones, Z. Kassabov, F. Krauss, T. Megy, D. Mellini, D. Napoletano, G. Passarino, S. Patel, M. Rodriguez-Vazquez, T. Wolf	J.Phys.G 45 (2018) <a href="https://doi.org/10.1088/1361-6471/aab812">10.1088/1361-6471/aab812</a>
<b>NNLO QCD corrections to Higgs boson production at large transverse momentum</b> X. Chen, <a href="#">J. Cruz-Martinez</a> , T. Gehrmann, N. Glover, and M. Jaquier	J. High Energ. Phys. 2016, 66 (2016) <a href="https://doi.org/10.1007/JHEP10(2016)066">10.1007/JHEP10(2016)066</a>

Data

05/07/2024

Luogo

Ginevra