

## ***Daniel Enrique de Florian***

### **DATOS PERSONALES**

Fecha de Nacimiento: 20 de Junio de 1967  
DNI: 18221725  
Domicilio: Zapiola 4040, dep 2, (1429) CABA  
Nacionalidad: Argentina  
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### **TITULOS UNIVERSITARIOS OBTENIDOS**

-Licenciado en Física, FCEYN, UBA, 29/05/92 (promedio: 9.5)  
-Doctor en Ciencias Físicas, Facultad de Ciencias Exactas, UNLP, 21/07/95 (promedio: 10)

### **POSICIONES y BECAS OBTENIDAS**

- **Profesor Titular Dedicación Exclusiva**  
ECyT- UNSAM
- **Investigador Superior**, CONICET
- **Profesor Titular Dedicación Exclusiva** (con licencia)  
Dpto. de Física, FCEyN, UBA.
- **Director del ICAS** (International Center of Advanced Studies), Universidad de San Martín (desde Junio 2015), Argentina.
- **Miembro del Board de la Universidad de San Andrés** (desde 2018)
- **Lider del Proyecto de Inteligencia Artificial Interdisciplinaria**, UNSAM
- **Categoría I del Programa de Incentivos**
- Postdoctorado con categoría de investigador principal  
Eidgenossische Technische Hochschule (ETH), Zurich.  
Desde el 1/10/98 hasta el 30/3/01.
- Postdoctorado, CERN  
CERN, Theory Division.  
Desde el 1/08/96 hasta el 30/9/98.

## **PREMIOS Y DISTINCIONES RECIBIDAS**

- **John Stuart Bell Fellow** at CERN, 1996-1998
- Premio **Bernardo Houssay** a la Investigación Científica y Tecnológica, **SECyT 2005**, Area Ciencias Exactas y Naturales (categoría Investigador Joven), **Argentina**.
- Premio **Juan Jose Giambiagi** en Física, Academia de Ciencias Exactas, Físicas y Naturales **ANCEFN 2007, Argentina**.
- **Beller Lectureship**, American Physical Society (USA) – **APS 2008, EEUU**.
- **Guggenheim Fellowship**, John Simon Guggenheim Memorial Foundation, 2008-2009, **EEUU**.
- Miembro del **Particle Data Group** y autor del **Review of Particle Physics** (desde 2009).
- Miembro del Steering Committee del **LHC Higgs Working Group**, **Suiza**.
- **TWAS Award on Physics 2014**, The World Academy of Sciences, **Italia**.
- **Alexander von Humboldt Award** 2016, Alexander von Humboldt Foundation, **Alemania**.
- Mención de Honor al Valor Científico 2017, Honorable **Senado de la Nación**, **Argentina**.
- Miembro de la **Academia Latinoamericana de Ciencias** (desde 2018).
- Premio a la Personalidad Destacada de ls últimas décadas, Revista Noticias 2019

## **FORMACION DE RECURSOS HUMANOS (TESIS DIRIGIDAS)**

**Postdoctorado**, Beca de la UNSAM, *Rocio Bermudez*, ICAS, Escuela de Ciencia y Tecnología, Universidad de San Martín 2018-2020, **Director**

**Postdoctorado**, Beca de la comunidad Europea, “Diphoton production at the LHC”, *Francesco Coradeschi*, proyecto LHCPhenonet”, FCEyN-UBA 2013-2014, **Director**

**Postdoctorado**, “Física de Colisionadores de Altas Energías”, *Roger José Hernandez Pinto*, proyecto LHCPhenonet”, FCEyN-UBA 2011-2014, **Director**

Tesis de **Doctorado** en Física, "Fenomenología de colisionadores hadrónicos", *José Zurita*, FCEyN-UBA **Finalizó** Septiembre 2009, **Director**

Tesis de **Doctorado** en Física, “Producción de hadrones y jets en colisiones de hadrones polarizados”, *Federico Wagner*, FCEyN-UBA **Finalizó** Abril 2010, **Director**

Tesis de **Doctorado** en Física, "Producción de partículas en colisionadores hadrónicos", *Leandro Cieri*, FCEyN-UBA **Finalizó** Diciembre de 2012, **Director**

Tesis de **Doctorado** en Física, "Comportamiento singular de las amplitudes de scattering en el límite colineal", *German Sborlini*, FCEyN-UBA **Finalizó** Agosto 2014, **Director**

Tesis de **Doctorado** en Física, "Efectos de la Cromodinámica Cuántica en la Física del Bosón de Higgs", *Javier Mazzitelli*, FCEyN-UBA **Finalizó** Julio 2016, **Director**

Tesis de **Doctorado** en Física, "Efectos de Interferencia en la producción del boson de Higgs en el LHC", *Nerina Fidanza*, FCEyN-UBA **Finalizó** Marzo de 2017, **Director**

Tesis de **Doctorado** en Física, "Estudios de Precisión para procesos semi-inclusivos en colisionadores a altas energías", *Yamila Rotstein*, FCEyN-UBA **Finalizó** Diciembre de 2017, **Director**

Tesis de **Doctorado** en Física, "Física de Altas energías en el LHC", *Ignacio Fabre*, Instituto Sábató, ICAS-UNSAM desde Abril 2016, **Director**

Tesis de **Doctorado** en Física, "Física del bosón de Higgs", *Manuel Der*, Instituto Sábató, ICAS-UNSAM desde Abril 2017, **Director**

Tesis de **Doctorado** en Física, "Física de Precisión en el LHC", *Ivan Pedron*, Instituto Sábató, ICAS-UNSAM desde Abril 2019, **Director**

Tesis de **Licenciatura** en Física, "Producción de hadrones en colisiones e+e- a altas energías", *Leonardo Vanni*, FCEyN-UBA **Finalizó** Marzo 2003, **Director**

Tesis de **Licenciatura** en Física, "Producción de Bosones de Gauge en colisiones hadronicas", *Edgardo Palazzo*, FCEyN-UBA **Finalizó** Marzo 2005, **Director**

Tesis de **Licenciatura** en Física, “Cálculo eficiente de amplitudes de scattering utilizando relaciones de recursión”, *José Zurita*, FCEyN-UBA **Finalizó** Marzo 2006, **Director**

Tesis de **Licenciatura** en Física, “Cálculo de Amplitudes de Scattering a un Loop para procesos con mucho partones”, *Gabriel Abelof*, FCEyN-UBA **Finalizó** Marzo 2009, **Director**

Tesis de **Licenciatura** en Física, “Cálculo de Amplitudes de scattering gluónicas a un loop utilizando unitariedad en D-dimensiones”, *Daniel Barmak*, FCEyN-UBA **Finalizó** Marzo 2009, **Director**

Tesis de **Licenciatura** en Física, “Producción de pión+fotón en colisiones hadrónicas a NLO”, *Germán Sborlini*, FCEyN-UBA **Finalizó** Diciembre 2009, **Director**

Tesis de **Licenciatura** en Física, “Calculo de las secciones eficaces a NNLO en la aproximación soft-virtual”, *Javier Mazitelli*, FCEyN-UBA **Finalizó** Marzo 2012, **Director**

Tesis de **Licenciatura** en Física, “Estudio de funciones de estructura semi-inclusiva”, *Yamila Rotstein*, FCEyN-UBA **Finalizó** Marzo 2012, **Director**

Tesis de **Licenciatura** en Física, “Producción y decaimiento de bosones de gauge en colisiones hadrónicas”, *Nerina Fidanza*, **Finalizó** Marzo 2012, **Director**

Tesis de **Licenciatura** en Física, “Producción de pares de bosones de Higgs en el LHC”, *Rocio Kiman*, **Finalizó** Marzo 2016, **Director**

Tesis de **Licenciatura** en Física, “Cómputo de Correcciones radiativas para la producción de un bosón de Higgs”, *Fiorella Fabris*, FCEyN-UBA **Finalizó** Mayo 2016, **Director**

Tesis de **Licenciatura** en Física, “Producción múltiple de bosones de Higgs”, *Manuel Der*, FCEyN-UBA **Finalizó** Marzo 2017, **Director**

Tesis de **Licenciatura** en Física, “Producción de Drell-Yan en colisiones de hadrones a altas energías”, *Ivan Pedron*, FCEyN-UBA **Finalizó** Marzo 2019, **Director**

### **ACTUACION MAS RELEVANTE EN ORGANISMOS CIENTIFICOS y UNIVERSITARIOS**

- Jurado de numerosas Tesis de Licenciatura y Doctorado en Física en UBA, UNLP, Paris-Saclay
- Jurado de diversos concursos de Profesor, Investigador, subsidios de investigación y convenios de cooperación científica (Argentina, Suiza, DoE-Estados Unidos, GNSF-Georgia, Colciencias-Colombia)
- Referee de las siguientes revistas científicas: JHEP, Nuclear Physics B, Physical Review D, European Physics Journal C, Physics Letters B, Physical Review Letters, Computer Physics Communications e International Journal of Modern Physics A.
- Secretario Académico del Departamento de Física, FCEyN-UBA (2003-2005)
- Integrante de la Comisión Ad-hoc del Consejo Directivo de la FCEyN-UBA para la recomendación de cargos a concursar (2008-2009)
- Consejero por el claustro de profesores, Consejo Directivo, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires (2007- 2010)
- Científico a cargo de la representación Argentina en la red Europea LHCPhenonet (2010-2014)
- Coordinador de la Comisión de Astronomía, Física y Matemática del FONCyT, ANPCyT, (2011-2015)
- Miembro del Steering Committee del LHC Higgs Working Group, Suiza, desde 2012
- Miembro del International Advisory Committee de la conferencia “High Precision for Hard Processes”
- Miembro del International Advisory Committee de “Conference on Quarks and Nuclear Physics”
- Director fundador del International Center for Advanced Studies (ICAS), ECyT-UNSAM, desde 2015

- Consejero docente titular del Consejo de ECyT-UNSAM
- Chair del Theory Advisory Committee LHC-HXSWG, CERN, Suiza
- Asesor del Vicerrectorado de Investigación, Universidad Nacional de San Martín, desde 2019
- Miembro del Program Committee de la conferencia LHCP 2020, Paris.

## **PUBLICACIONES CIENTIFICAS**

**Indice de PUBLICACIONES CIENTIFICAS:** (al 05/08/2020)

*En [Google Scholar](#)* (Publicaciones registradas: 246)

Citas: 75398

h-index= 67

*En [Scopus](#)* (Publicaciones registradas: 145)

Citas: 31236

h-index= 49

*En [Science Citation Index](#)* (ISI Web of Science) (Publicaciones registradas: 142)

Citas: 30844

h-index:49

*En [INSPIRES](#)* (Publicaciones registradas: 167)

Citas: 46059

h-index= 64

### **Publicaciones en Revistas Internacionales con Referato**

133. Review of Particle Physics

**Progress of Theoretical and Experimental Physics, Vol. 2020, 083C01 (2020)**

P. Zyla et al (Particle Data Group)

132. Jet Production in Polarized DIS at NNLO

**Physical Review Letters 125, 082001 (2020)**

I. Borsa, D. de Florian, I. Pedrón

131. Mixed QCDxQED corrections to exclusive Drell Yan production using the qT-subtraction method

Aceptado para su publicación en **Journal of High Energy Physics**

L. Cieri, D. de Florian, M. Der, J, Mazzitelli

130. Les Houches 2019: Physics at TeV Colliders: Standar Model Working Group Report

**PhysTeV 2019 (2020)**

S. Amoroso, D. de Florian, et al.

129. Electroweak boson production at large transverse momentum in double polarized pp scattering at next-to-leading-order accuracy

**Physical Review D** **101** (2020) **3**, 034031

D. de Florian and I. Pedron

128. DYTurbo: fast predictions for Drell-Yan processes

**European Physics Journal C** **80** (2020) **3**, 251

S. Camarda, D. de Florian et al

127. Triple Higgs production at hadron colliders at NNLO in QCD

**Journal of High Energy Physics** **03** (2020) **155**

D. de Florian, I. Fabre and J. Mazzitelli

126. Monte Carlo sampling variant of the DSSV14 set of helicity parton densities

**Physical Review D** **100** (2019), 11, 114027

D. de Florian, G. Lucero, R. Sassot, M. Stratmann and W. Vogelsang

125. Soft-gluon effective coupling and cusp anomalous dimension

**European Physics Journal C** **79** (2019) no. 8, 685.

S. Catani, D. de Florian and M. Grazzini

124. HE-LHC: The High Energy LHC, Future Circular Collider : Vol. 4

**European Physics Journal ST** **228** (2019) no 5, 1109-1382

FCC Collaboration, A. Abada et al.

123. FCC-hh: The Hadron Collider, Future Circular Collider : Vol. 3

**European Physics Journal ST** **228** (2019) no 4, 755-1107

FCC Collaboration, A. Abada et al.

122. FCC-ee: The Lepton Collider, Future Circular Collider : Vol. 2

**European Physics Journal ST** **228** (2019) no 2, 261-623

FCC Collaboration, A. Abada et al.

121. FCC Physics Opportunities, Future Circular Collider : Vol. 1

**European Physics Journal C** **79** (2019) no 6, 474

FCC Collaboration, A. Abada et al.

120. Spin budget of the proton at NNLO and beyond

**Physical Review D** **99** (2019), no 5, 054001

D. de Florian and W. Vogelsang

119. Review of Particle Physics

**Physical Review D** **98** (2018), no 3, 030001

M. Tanabashi et al (Particle Data Group)

118. Soft gluon resummation for Higgs boson pair production including finite  $M_{tt}$  effects

**Journal of High Energy Physics** **1808** (2018) **156**

D. de Florian and J. Mazzitelli

117. QCD+QED corrections to Drell-Yan production

**Physical Review D 98 (2018)**, no 9, 094008

D. de Florian, M. Der and I. Fabre

116. Diphoton production at the LHC: a QCD study up to NNLO

**Journal of High Energy Physics 1804 (2018) 142**

S. Catani, L. Cieri, D. de Florian, G. Ferrera and M. Grazzini

115. Transversely polarized Drell-Yan Asymmetry  $A_{TT}$  at NLO

**Physical Review D 96(2017)**, no 9, 094006

D. de Florian

114. Transverse-momentum resummation for the signal-background interference in the  $H \rightarrow \gamma\gamma$  channel at the LHC

**Physical Review D 96(2017)**, no 5, 054003

L. Cieri, F. Coradeschi, D. de Florian and N. Fidanza

113. Higgs boson pair production at NNLO in QCD including Dimension 6 Operators

**Journal of High Energy Physics 1710 (2017) 215**

D. de Florian, I. Fabre and J. Mazzitelli

112. Parton-to-Kaon fragmentation revisited

**Physical Review D 95 (2017)**, no 9, 094019

D. de Florian, M. Epele, R.J. Hernandez-Pinto, R. Sassot, M. Stratmann

111. Towards semi-inclusive deep inelastic scattering at next-to-next-to-leading order

**Physical Review D 95 (2017)**, no 3, 034027

D. Anderle, D. de Florian and Y. Rotstein

110. Review of Particle Physics

**Chinese Physics C 40 (2016) 10, 100001**, p.1-1808

C. Patrignani et al (Particle Data Group)

109. Handbook of the LHC Higgs Cross Sections: 4. Deciphering the Nature of the Higgs Sector

**CERN Yellow Report**, arXiv:1610.07922 [hep-ph]

D. de Florian et al.

108. Two-loop corrections to the triple Higgs boson production cross section

**Journal of High Energy Physics (2017)**, 053.

ISSN 1029-8479, Institute of Physics for SISSA-ISAS, Trieste, Italia.

D. de Florian and J. Mazzitelli

107. Differential Higgs Boson Pair Production at Next-to-Next-to-Leading Order in QCD

**Journal of High Energy Physics 1609 (2016)**, 151.

D. de Florian, M. Grazzini, S. Kallweit, J. Lindert, P. Maierhöfer, J. Mazzitelli, D. Rathlev

106. Physics at a 100 TeV pp collider: Higgs and EW symmetry breaking studies

**CERN Report**, arXiv:1606.09408 (2016)

R. Contino et al.

105. Two-loop QED corrections to the Altarelli-Parisi splitting functions

**Journal of High Energy Physics 1610 (2016)**, 056.

D. de Florian, G. Rodrigo and G. Sborlini

104. Precision Studies of Observables in  $pp \rightarrow W \rightarrow \ell \nu$  and  $pp \rightarrow \gamma, Z \rightarrow \ell + \ell^-$  processes at the LHC  
**European Physics Journal C 77 (2017) nro 5 280.**

S. Aioli et al

103. QED Corrections to the Altarelli-Parisi Splitting Functions  
**European Physics Journal C76 (2016), 5, 282**

D. de Florian, G. Rodrigo and G. Sborlini

102. Vector Boson Production at Hadron Colliders: Transverse-Momentum Resummation and leptonic decay.

**Journal of High Energy Physics 1512 (2015), 047.**

S. Catani, D. de Florian, G. Ferrera and M. Grazzini

101. Higgs Pair Production at NNLL accuracy at the LHC

**Journal of High Energy Physics 1509 (2015), 053.**

D. de Florian and J. Mazzitelli

100. Diphoton Production at Hadron Colliders: Transverse-Momentum Resummation at NNLL.

**Journal of High Energy Physics 1506 (2015), 185.**

L. Cieri, F. Coradeschi and D. de Florian

99. Interference effects in the H+2 jets channel at the LHC.

**Physical Review D 92 (2015), 013004 p.1-8**

F. Coradeschi, D. de Florian, L.J. Dixon, N. Fianza, S. Höche, H. Ita, Y. Li and J. Mazzitelli

98. Parton-to-Pion Fragmentation Reloaded.

**Physical Review D 91 (2015), 1 014035.**

D. de Florian, R. Sassot, M. Epele, R. Hernandez Pinto, M. Stratmann

97. Polarized Triple Collinear Splitting functions at NLO for processes with photons.

**Journal of High Energy Physics 1503 (2015), 021.**

D. de Florian, G. Rodrigo and G. Sborlini

96. Approximate N3LO Higgs-boson production cross section using physical-kernel constraints

**Journal of High Energy Physics 1410 (2014), 176.**

D. de Florian, J. Mazzitelli, S. Moch and A. Vogt

95. Triple Collinear Splitting functions at NLO for scattering processes with photons.

**Journal of High Energy Physics 1410 (2014), 161.**

D. de Florian, G. Rodrigo and G. Sborlini

94. Review of Particle Physics

**Chinese Physics C38 (2014) 090001, p.1-1676.**

K.A. Olive et al (Particle Data Group)

93. Threshold resummation at N3LL accuracy and soft-virtual cross section at N3LO

**Nuclear Physics B 888 (2014), p. 75-91**

S. Catani, L. Cieri, D. de Florian, G. Ferrera and M. Grazzini



92. Evidence for polarization of gluons in protons  
**Physical Review Letters** **113** (2014) 012001, p.1-5  
D. de Florian, M. Stratmann, R. Sassot and W. Vogelsang
91. Next-to-Next-to-Leading Order QCD corrections in Models of TeV-Scale gravity.  
**Journal of High Energy Physics** **1404** (2014) **028**, p.1-17  
D. de Florian, M. Mahakhud, P. Mathews, J. Mazzitelli, V. Ravindran
90. Quark and gluon spin-2 for factors to two-loops in QCD.  
**Journal of High Energy Physics** **1402** (2014) **035**, p.1-15  
D. de Florian, M. Mahakhud, P. Mathews, J. Mazzitelli, V. Ravindran
88. Universality of transverse-momentum resummation and hard factors at the NNLO.  
**Nuclear Physics B** **881** (2014), p. 414-443  
S. Catani, L. Cieri, D. de Florian, G. Ferrera and M. Grazzini
88. Approximate next-to-next-to-leading order corrections to hadronic jet production.  
**Physical Review Letters** **112** (2014) **082001**, p.1-5  
D. de Florian, P. Hinderer, A. Mukherjee, F. Ringer and W. Vogelsang
87. Double Collinear Splitting Amplitudes at next-to-leading-order.  
**Journal of High Energy Physics** **1401** (2014) 018, p.1-54  
D. de Florian, G. Rodrigo and G. Sborlini
86. Higgs Pair production at NNLO.  
**Physical Review Letters** (2013) **111**, 201801 p.1-5  
D. de Florian and J. Mazzitelli
85. Nuclear PDFs  
**Nuovo Cimento C** **036** (2013) 5, p.1-273  
D. de Florian, M. Stratmann, R. Sassot and P. Zurita.
84. Handbook of LHC Higgs Cross Sections: 3. Higgs Properties  
**CERN Yellow Report** (2013), 404 páginas.  
LHC Higgs Cross Section Working Group, S. Heinemeyer et al.
83. Soft-gluon resummation for High-pT Inclusive-Hadron Production at COMPASS.  
**Physical Review D** **88** (2013), 014024 p.1-13  
D. de Florian, M. Peuffer, A. Schafer and W. Vogelsang
82. Two-loop virtual corrections to Higgs pair production.  
**Physics Letters B** **724** (2013), p.306-309  
D. de Florian and J. Mazzitelli
81. A complete Order( $\alpha_s^2$ ) calculation of the signal-background interference for the Higgs diphoton decay channel  
**European Physics Journal C** **73** (2013) **2387**, p.1-5.  
D. de Florian, Nerina Fianza, Roger Hernandez Pinto, Javier Mazzitelli, Y. Rotstein Habarnau and German Sborlini
80. Polarized semi-inclusive electroweak structure functions at next-to-leading-order

**European Physics Journal C 73 (2013) 2356**, p.1-11.

D. de Florian and Y. Rotstein Habarnau

79. A next-to-next-to-leading order calculation of soft-virtual cross sections.

**Journal of High Energy Physics 1212 (2012) 088**, p.1-25

D. de Florian and J. Mazzitelli

78. Vector Boson Production at hadron colliders: hard-collinear coefficients at the NNLO

**European Physics Journal C 72 (2012) 2195**, p.1-9.

S. Catani, L. Cieri, D. de Florian, G. Ferrera and M. Grazzini

77. Review of Particle Physics (Fragmentation functions in  $e^+e^-$ , ep and pp collisions)

**Physical Review D. 86 (2012) 010001**, p.1-1528

J. Beringer et al (Particle Data Group)

76. Higgs Production at the LHC: updated cross sections at 8 TeV.

**Physics Letters B 718 (2012)**, p.117-120

D. de Florian and M. Grazzini

75. Handbook of LHC Higgs Cross Sections: 2. Differential Distributions

**CERN Yellow Report (2012)**, 275 páginas.

LHC Higgs Cross Section Working Group, S. Dittmaier et al.

74. Higgs boson Production at the LHC: Transverse momentum resummation effects in Higgs to  $2\gamma$ , WW ( $\ln \ln$ ) and ZZ ( $4l$ ) decay modes.

**Journal of High Energy Physics 1206 (2012) 132**, p.1-25

D. de Florian, G. Ferrera, M. Grazzini and D. Tommasini

73. Global Analysis of Nuclear Parton Distributions

**Physical Review D. 85 (2012) 074028**, p.1-22

D. de Florian, R. Sassot, M. Stratmann, P. Zurita

72. Space-Like (versus time-like) collinear limits in QCD: Is factorization violated?

**Journal of High Energy Physics 1207 (2012) 026**, p.1-87

S. Catani, D. de Florian and G. Rodrigo

71. QCD Spin Physics: Partonic Spin Structure of the Nucleon

**Progress on Particle and Nuclear Physics 67 (2012) p.251-256**

D. de Florian, M. Stratmann, R. Sassot and W. Vogelsang

70. Diphoton production at hadron colliders: a fully-differential QCD calculation at NNLO

**Physical Review Letters 108 (2012) 072001**, p.1-4

S. Catani, L. Cieri, G. Ferrera, D. de Florian and M. Grazzini

69. Transverse-momentum resummation: Higgs boson production at the Tevatron and the LHC

**Journal of High Energy Physics 1111 (2011) 064**, p.1-19

D. de Florian, G. Ferrera, M. Grazzini and D. Tommasini

68. Handbook of LHC Higgs Cross Sections: 1. Inclusive Observables

**CERN Yellow Report (2011)**, 153 páginas.

LHC Higgs Cross Section Working Group, S. Dittmaier et al.

67. Hadron plus Photon Production in Polarized Hadronic Collisions at Next-to-Leading Order  
**Physical Review D** **83** (2011) 074022, p.1-12  
D. de Florian and G. Sborlini
66. Production of Drell-Yan lepton pairs in hadron collisions: transverse-momentum resummation at next-to-next-to-leading logarithmic accuracy  
**Physics Letters B** **696** (2011), p.207-213  
G. Bozzi, S. Catani, G. Ferrera, D. de Florian and M. Grazzini
65. Review of Particle Physics (Fragmentation functions in  $e^+e^-$ , ep and pp collisions)  
**Journal of Physics G: Nuclear and Particle Physics** **37** (2010) 075021, p.1-1422.  
K. Nakamura et al (Particle Data Group)
64. Helicity Parton Distributions from Spin Asymmetries in W-boson Production at RHIC  
**Physical Review D** **81** (2010) 094020, p.1-11.  
D. de Florian and W. Vogelsang
63. Single Inclusive Jet Production in Polarized pp Collisions at next-to-leading logarithmic accuracy  
**European Physics Journal C** **67** (2010) p. 367-375  
D. de Florian and F. Wagner
62. Extraction of Spin-Dependent Parton Densities and their Uncertainties.  
**Physical Review D** **80** (2009) 034030, p.1-26  
D. de Florian, M. Stratmann, R. Sassot and W. Vogelsang
61. Vector Boson Production at Hadron Colliders: a fully exclusive QCD calculation at NNLO  
**Physical Review Letters** **103** (2009) 082001, p.1-4  
S. Catani, L. Cieri, G. Ferrera, D. de Florian and M. Grazzini
60. Next-to-Leading Order QCD Corrections to Hadron+Jet Production in pp Collisions at RHIC  
**Physical Review D** **79** (2009) 114014, p.1-9  
D. de Florian
59. Transverse Momentum Resummation: a Perturbative Study of Z Production at the Tevatron  
**Nuclear Physics B** **815** (2009), p.174-179  
G. Bozzi, S. Catani, G. Ferrera, D. de Florian and M. Grazzini
58. Higgs Production through Gluon Fusion: Updated Cross Sections at the Tevatron and the LHC  
**Physics Letters B** **674** (2009) p.291-294  
D. de Florian and M. Grazzini
57. Single-Inclusive Hadron Production in Transversely Polarized PP and PPbar scattering with Threshold Resummation  
**Physical Review D** **78** (2008) 074025, p1-12  
D. de Florian, W. Vogelsang and F. Wagner
56. Global Analysis of Helicity Parton Densities and Their Uncertainties  
**Physical Review Letters** **101** (2008) 072001, p.1-4  
D. de Florian, M. Stratmann, R. Sassot and W. Vogelsang

55. Soft-gluon Resummation for Pseudoscalar Higgs Boson Production at Hadron Colliders  
**Physics Letters B 659 (2008)** p.813-820  
D. de Florian and J. Zurita
54. Higgs boson production at the LHC: Transverse-momentum resummation and rapidity dependence.  
**Nuclear Physics B791 (2008)**, p.1-19  
G. Bozzi, S. Catani, D. de Florian and M. Grazzini
53. Resummed Cross Section for Jet Production at Hadron Colliders  
**Physical Review D76 (2007)** 074031, p.1-14  
D. de Florian and W. Vogelsang
52. Global Analysis of Fragmentation Functions for Protons and Charged Hadrons  
**Physical Review D76 (2007)** 074033, p.1-16  
D. de Florian, R. Sassot and M. Stratmann
51. Single-Inclusive Hadron Production in Polarized PP scattering at Next-to-Leading Logarithmic Accuracy  
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## **PRESENTACIONES EN CONGRESOS Y CHARLAS INVITADAS**

“Soft-gluon effective coupling”

ICHEP 2020

Agosto 2020, Praga, Rep. Checa (online)

“Jet production at NNLO in polarized DIS”

Jet at EIC

Agosto 2020, BNL, EEUU (online)

“Precision QCD at the LHC”

Workshop on determination of fundamental QCD parameters

Octubre 2019, ICTP-SAIFR, San Pablo, Brasil

“Inteligencia Artificial Interdisciplinaria”

IAI-UNSAM

Septiembre 2019, UNSAM, Argentina

“Soft-gluon effective coupling”

LoopFest XVIII

Agosto 2019, Fermilab, Chicago, EEUU

“QCD and QED NNLO corrections to Drell Yan Production”

COFI Workshop on Precision ElectroWeak

Julio 2019, Puerto Rico

“The Precision Higgs Frontier”

COFI Workshop on Precision ElectroWeak

Julio 2019, Puerto Rico

“Higgs TH summary”

Physics at TeV Colliders 2019

June 2019, Les Houches, France

“QCD”

Clashep, CERN Latinamerican School on High Energy Physics

4 lectures

Marzo 2019, Villa General Belgrano, Argentina

“pQCD (and SM) physics at the LHC”

SILAFEA 2018

Noviembre 2018, Lima, Peru

“Mixed QCD-QED corrections to Drell-Yan”

CERN, Physics at the LHC and Beyond  
Julio 2018, CERN, Suiza

“QCD+QED corrections to Drell-Yan production”  
CERN, LHC EW precisión WG meeting  
Junio 2018, CERN, Suiza

Perturbative QCD at the LHC  
PHENOEXP 2018  
Mayo 2018, ICAS, Argentina

Higgs pair production with Dimension 6 operators  
Beyond Standard Model Physics for LHC run II  
Octubre 2017, ICAS, Argentina

Fixed order QCD corrections  
QCD@ LHC 2017  
Agosto 2017, Debrecen, Hungría

Where is the spin of the proton?  
UFRJ, Rio de Janeiro Brasil  
Junio 2017

Introduction to the HXSWG  
LHC-HXSWG meeting  
Junio 2017, CERN, Suiza

Higgs production at the LHC  
AR-HEP II meeting  
Abril 2017, ICAS, Argentina

La Física de las partículas elementales y la informática  
Diciembre 2016, Conferencia CACIDI 2016, Buenos Aires, Argentina

(Precise) Higgs Physics at the LHC  
Noviembre 2016, Conferencia “Frontiers in Physical Sciences”,  
ICAS-Max Planck, Argentina

(Precise) Higgs Physics at the LHC  
Julio 2016, IF, Universidad Federal Fluminense, Rio de Janeiro, Brasil

One, Two, Many Higgses  
PUC Colloquium  
Junio 2016, PUC Rio de Janeiro, Brasil

Status of Higgs Precision Studies  
28<sup>th</sup> Rencontres de Blois  
Mayo 2016, Blois, Francia

One, Two, Many Higgses  
MPP Colloquium

Enero 2016, Munich, Alemania

Higgs Pair production: SM and non-resonant  
Atlas HH workshop  
Enero 2016, Paris, Francia

Precision Higgs Physics at the LHC  
13<sup>th</sup> TWAS General Conference  
Noviembre 2015, Viena, Austria

Lectures on QCD  
Agosto 2015, CINVESTAV, Mexico

The subtraction method  
ICTP-SAIFR  
Julio 2015, San Pablo

Diphoton production at the LHC  
MITP, Mainz  
Junio 2015, Mainz, Alemania

Higgs pair production  
MITP, Mainz  
Abril 2015, Mainz, Alemania

One, Two, many Higgses  
Tübingen University  
Abril 2015, Tübingen, Germany  
Lectures on QCD  
CERN-School  
Marzo 2015, Ecuador

Theoretical Precision  
Hamburg workshop on Higgs Physics  
Octubre 2014, Hamburg, Germany

Precision Physics at the LHC  
XXXV Encontro Nacional de Fisica de Particulas e Campos  
September 2014, Caxambu, Brazil

Theory Higgs Production  
Higgs Hunting  
July 2014, Paris, France

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June 2014, Geneva, Switzerland

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May 2014, Zurich, Switzerland

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DIS2014, Plenary Talk  
April 2014, Warsaw, Poland

Coloquio Nobel 2013  
Departamento de Fisica, Universidad de Buenos Aires  
November 2013, Buenos Aires, Argentina

Higgs pair production at NNLO  
University of Oxford  
November 2013, Oxford, England

Approximate NNLO corrections to Hadronic Jet Production  
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Standard Model Theory for Collider Physics  
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Higgs TH summary  
Physics at TeV Colliders 2013  
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2gamma Isolation  
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Higgs TH tools  
Physics at TeV Colliders 2013  
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Higgs para tod@s  
Coloquio del Instituto Balseiro  
November 2012, Bariloche, Argentina

Correcciones radiativas en QCD a 1, 2 y mas loops  
Seminario del Instituto Balseiro  
November 2012, Bariloche, Argentina

Review of LHCphenonet (Buenos Aires node)  
LHCphenonet MidTerm Meeting  
September 2012, Ravello, Italy

Higgs Physics  
Summer School and Workshop on the Standard Model and Beyond  
September 2012, Corfu, Greece



Diphoton Theory  
QCD@LHC 2012  
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Buscando al Bosón de Higgs (o rompiendo simetrías)  
Seminario de la Gerencia de Investigaciones y aplicaciones de la CNEA  
June 2012, Tandem-CNEA, Buenos Aires, Argentina.

Gluon-Gluon Fusion Higgs Cross Sections  
6<sup>th</sup> Workshop of LHC Higgs Cross Section Working Group  
May 2012, CERN, Switzerland

Inclusive Higgs Theory  
The Next Stretch of the Higgs Magnificent Mile  
May 2012, Chicago, USA

2gammaNNLO  
Workshop on Photon Physics and Simulation at Hadron Colliders  
March 2012, Paris, France

Theory Developments in QCD  
DIS2012, Plenary Talk  
March 2012, Bonn, Germany

The Structure of the nucleon at High Energies (4 lectures)  
University of Zürich and ETH  
February 2012, Zurich, Switzerland

Higgs to two-photons: signal and background  
The Zurich phenomenology Workshop  
January 2012, Zurich, Switzerland

Diphoton Production at NNLO  
CMS meeting  
December 2011, CERN, Switzerland

Diphoton Production at NNLO  
ATLAS meeting  
December 2011, CERN, Switzerland

Diphoton Production at NNLO  
ETH Zürich  
November 2011, Zürich, Switzerland

Diphoton Production at NNLO  
Confronting Theory with Experiment: Puzzles, Challenges and Opportunities in the LHC Era  
November 2011, Fermilab, USA

Higgs and QCD  
Invited Talk, Galileo Galilei Institute, Firenze, Italy

September 2011, Firenze, Italy

Status of parton distributions and impact on the Higgs

Invited Talk, Higgs Hunting 2011

July 2011, Paris, Orsay France

Review on Fragmentation Functions

Invited Talk, International Workshop on Hadron Structure and Spectroscopy 2011

April 2011, Paris, France

Gauge Boson Production at NNLO in hadronic Collisions

LHCPhenonet Kickoff meeting

February 2011, Valencia, Spain

Higgs Production at Tevatron

Higgs Systematic Workshop for the Tevatron

May 2010, Fermilab, USA

Theoretical Summary: QCD final states in DIS and hadron colliders

DIS2010, April 2010, Florence, Italy.

CHE: W production at NLO and the Polarized sea Distributions

Invited Talk, Progress in High PT Physics at RHIC, March 2010, BNL, USA

Overview: W physics at RHIC

Invited Talk, RHIC Spin: Next Decade, November 2009, Berkeley, USA

Nucleon Structure, Open Questions: Theory View

Invited Talk, Electron-Ion Collider Workshop, September 2009, Milos, Greece

Status of Polarized PDFs and the role of the gluon

8<sup>th</sup> European Research Conference on “Electromagnetic Interactions with Nucleons and Nuclei”, EINN 2009, October 2009, Milos, Greece

NNLO corrections to Drell-Yan and more

SM and BSM physics at the LHC, August 2009, CERN, Geneva, Switzerland

Hadron+jet production at RHIC/NLO

Invited Talk, Berkeley Summer program on Nucleon Spin Physics, June 2009, Berkeley, USA

Cross-sections for Higgs production

Invited Talk, Loopfest, May 2009, Madison, USA

W single-asymmetries at RHIC: a NLO QCD calculation

Invited talk, RHIC Spin Collaboration Meeting, January 2009, BNL, USA

Global Analysis of fragmentation functions

Invited talk, Phenix Meeting, December 2008, BNL, USA

Global Analysis of polarized PDFs

Invited talk, RHIC and AGS Annual Users' Meeting, May 2008, BNL, USA

Theoretical Status and advances in understanding the role of polarized gluons  
***Beller Lectureship Talk***, APS April Meeting, April 2008, Saint Louis, USA

Global Analysis of Fragmentation Functions  
Invited Talk, Global Analysis of Polarized Parton Distributions in the RHIC Era  
RIKEN workshop, BNL, October 2007

El bosón de Higgs en colisionadores de altas energías  
Charla plenaria invitada, AFA 2007, Salta, Septiembre 2007

Threshold resummation for single-Inclusive Hadron Production  
Invited talk, Universidad de Rio Grande do Sul, Porto Alegre, Brasil, September 2007

Precise QCD Predictions for Higgs Production at the LHC  
Invited talk, VI SILAFAE 2006, Puerto Vallarta, Mexico, Noviembre 2006

QCD, a Background to New Physics  
Invited Lecture, PASI 2006 “Beyond the Standard Model in Cosmology, Astroparticle and Particle Physics”, Puerto Vallarta, Mexico, Noviembre 2006

Threshold Resummation for High Transverse Momentum Higgs production  
Invited Talk, “High Precision for Hard Processes at the LHC”, ETH Zurich, Zurich, Suiza, Septiembre 2006

Threshold Resummation for Hadron and Photon production  
Invited Talk, ETH Zurich, Zurich, Suiza, Julio 2005

Threshold Resummation for single-inclusive Hadron production  
Invited Talk, INFN and University of Firenze, Florencia, Italia, Junio 2005

Drell-Yan Physics and QCD  
Invited Lecture at CTEQ School 2005, Puebla, Mexico, Mayo 2005

Higgs Physics and QCD  
Invited Lecture at CTEQ School 2005, Puebla, Mexico, Mayo 2005

Threshold Resummation for hadrons, photons and jets  
Invited talk at The Partonic Structure of Hadrons, ECT\*Trento, Italia, Mayo 2005

Coloquio Nobel: QCD, LA teoria de las Interacciones Fuertes  
Octubre 2004, Departamento de Fisica, FCEyN, UBA

Resummed Cross-Section for Higgs Boson Production  
Invited talk at International Conference on High Energy Physics, ICHEP04, Agosto 2004, Beijing, China

Perturbative Generation of a Strange Quark Asymmetry in the Nucleon  
Invited talk at International Conference on High Energy Physics, ICHEP04, Agosto 2004, Beijing, China

Nuclear PDF's at Next to Leading Order  
Invited talk at High PT Physics at RHIC, BNL, USA, Diciembre 2003

Spin Physics at RHIC

Invited talk, ElectroWeak Radiative Corrections to hadronic Observables at TeV Energies, Durham, Inglaterra, Septiembre 2003

The qt distribution of the Higgs boson

Invited talk at LHC- Experimental Meeting, CERN, Suiza, Mayo 2003

Single hadron production in polarized hadronic collisions

Invited talk at Current and Future directions at RHIC, BNL, USA, Agosto 2002

Resummed Higgs Production in Hadronic Collisions

Invited talk, Current and Future directions at RHIC, BNL, USA, Agosto 2002

Higgs Production in Hadron Collisions at NNLO

QCDnet-YR workshop, Parma, Italia, Febrero 2002

g-2: Evidencia de Física mas alla del Modelo Standard?

Dpto. de Física, FCEyN, UBA, Noviembre 2001

Physics of Polarized pp collisions

Invited Lecture at Electromagnetic Interactions with Nucleons and Nuclei, EuroConference on Hadron Production with Electromagnetic Probes, EURESCO, 2-7 Oct. 2001, Santorini, Grecia

NNLO corrections to Higgs Production in Hadron Collisions

Invited talk at Workshop on Physics at TeV colliders, Les Houches, Francia, Mayo 2001

Resummation of large Logarithmic Corrections at Small Transverse Momentum in Hadronic Collisions

Invited talk, Workshop on Physics at TeV colliders, Les Houches, Francia, Mayo 2001

Producción de bosones de Higgs a NNLO

Dpto. de Física, Universidad Nacional de La Plata, Abril 2001

Higgs Production in Hadron Collisions at NNLO: Soft and Virtual Corrections

QCDnet-YR workshop, Zurich, Switzerland, February 2001

The universal structure of large Logarithmic Corrections at Small Transverse Momentum

Invited talk at CPT, Luminy-Marseille, France, January 2001

Next-to-Next-to Leading Logarithmic Corrections at Small Transverse Momentum in Hadronic Collisions

Invited talk at Theory Division, CERN, Switzerland, December 2000

On the structure of large logarithmic corrections at small transverse momentum in hadronic collisions

QCDNet2000, Paris, France, September 2000

Jet production with polarized beams at NLO

Invited talk at CPT, Luminy-Marseille, France, June 2000

Lambda production at RHIC

Invited talk at CIPANP 2000 Conference, Quebec, Canada, May 2000

Jet production at NLO

Invited talk at Mainz University, Mainz, Germany, April 2000

Measurement of Delta G= Theoretical uncertainties

Invited talk at RHIC Workshop, BNL, USA, March 2000

Jet production at NLO

Invited talk at Dortmund University, Dortmund, Germany, February 2000

The spin structure of the nucleon

Invited talk at Durham University, Durham, England, November 1999

Theoretical uncertainties in processes relevant for the extraction of Delta G

Invited talk at Compass Meeting, Munich, Germany, October 1999

Higgs Production with Large pT at LHC

QCDNET99, Firenze, Italy, September 1999

Polarized Fragmentation Functions

Invited talk at Workshop on Physics with Electron Polarized Ion Collider - EPIC '99, 8-11 Apr 1999, Bloomington, Indiana, USA.

Higgs Production at NLO with high pT

LHC workshop, Jan.-Jul. 1999 CERN, Switzerland

Jet Production in Polarized Proton-Proton Collisions at RHIC

Invited talk at Mc Gill University, 4 May 1998 Montreal, Canada

Lambda production in pp collisions

RHIC Spin Workshop, 27-29 Apr 1998 Brookhaven, USA

NLO Analysis of Semi-inclusive DIS

2nd Topical Workshop on Deep Inelastic Scattering of Polarized Targets, 1-5 Sep 1997, Zeuthen, Germany

Target Fragmentation and Fracture Functions

Madrid Workshop on Low  $x$  Physics, 18-21 Jun 1997, Madrid, Spain

NLO QCD Corrections to Inclusive-Hadron Production at HERA

Workshop on Physics with Polarized Protons at Hera, 1st meeting 6-7 Mar 1997, Hamburg, Germany

Polarized Lambda Production at Hera

Workshop on Physics with Polarized Protons at Hera, 1st meeting 6-7 Mar 1997, Hamburg, Germany

Target and Current Fragmentation in polarized semi-inclusive DIS

Invited Talk at Workshop on Spin Physics, Ringberg, Alemania, March 1997

Target and Current Fragmentation in DIS

Invited talk at Theory Division, CERN, Switzerland, February 1997

Spin Dependent Proton Structure Functions  
Workshop on Particles and Fields, 1-5 Nov 1995, Puebla, Mexico-, AIP

Distribuciones dependientes de spin del nucleon  
Escuela Latinoamericana de Física, ELAF 93, Julio 1993, Mar del Plata, Argentina

## **RECIENTES VISITAS DE TRABAJO**

- Octubre 2019, ICTP-SAIFR, San Pablo
- Septiembre 2019 PUC Rio, Rio de Janeiro, Brasil
- Agosto 2019, Invitado a Fermilab, USA
- Junio 2019, Les Houches, Francia
- Junio 2019, CERN, Suiza
- Septiembre 2018 Invitado a Universidad de Zürich, Suiza
- Septiembre 2018 Invitado a Universidad Tübingen, Alemania
- Julio 2018, CERN, Suiza
- Marzo 2018, CERN, Suiza
- Enero 2018, CERN, Suiza
- Septiembre 2017 PUC Rio, Rio de Janeiro, Brasil
- Septiembre 2017 Invitado a Universidad Tübingen, Alemania
- Agosto 2017 Invitado a Universidad de Zürich, Suiza
- Julio 2017 Invitado a Universidad Tübingen, Alemania
- Enero 2017 Invitado a Universidad de Zürich, Suiza
- Julio 2016 PUC Rio, Rio de Janeiro, Brasil
- Junio 2016 PUC Rio, Rio de Janeiro, Brasil
- Enero 2016, MPP Munich, Alemania
- Enero 2016, CERN, Suiza
- Noviembre 2015, 13<sup>th</sup> TWAS General Conference, Viena, Austria
- Septiembre 2015, GGI y Universidad de Florencia, Italia
- Agosto 2015, CINVESTAV, Mexico
- Julio 2015, ICTP-SAIFR, San Pablo
- Junio 2015, CERN, Suiza
- Junio 2015, MITP, Mainz, Alemania
- Abril 2015, MITP, Mainz, Alemania
- Marzo 2015, CERN-School, Ecuador
- Septiembre 2014, Invitado a CERN, Suiza
- September-October 2014, Invitado a GGI, Florencia, Italia
- Mayo 2014, Invitado a CERN, Suiza
- April 2014, Invitado a ETH, Zürich, Suiza
- Noviembre 2013, Invitado a Universidad de Oxford, Inglaterra
- Octubre 2013, Invitado a Universidad de Zürich, Suiza
- Octubre 2013, Invitado a Universidad Tübingen, Alemania
- Noviembre 2012, Invitado a Instituto Balseiro, Bariloche, Argentina
- Mayo 2012, Invitado a CERN, Suiza
- Mayo 2012, Invitado a Fermilab, USA
- Noviembre 2011 – February 2012, **Full Professor**, University of Zürich, Suiza

- September 2011, Invitado a GGI, Florencia, Italia
- Agosto 2011, Invitado a Brookhaven National Laboratory (BNL), EEUU
- Julio 2011, Invitado a Universite Paris-Sud, Orsay, Paris, Francia
- Abril 2011, Invitado a Universite Paris-Sud, Orsay, Paris, Francia
- Enero 2011, Invitado a Universidad Tübingen, Alemania
- Julio 2010, Invitado a Theory division CERN, Suiza
- May 2010, Invitado to Fermilab, USA
- Abril 2010, Invitado a University of Firenze, Florencia, Italia
- Marzo 2010, Invitado a Brookhaven National Laboratory (BNL), EEUU
- Noviembre 2009 – December 2009, Invitado a Brookhaven National Laboratory (BNL), EEUU
- Noviembre 2009, Invitado a Lawrence Berkeley National Laboratory, EEUU
- Agosto 2009, Invitado a Theory division CERN, Suiza
- Junio 2009, Invitado a Lawrence Berkeley National Laboratory, EEUU
- Noviembre 2008-Enero 2009, Invitado a Brookhaven National Laboratory (BNL), EEUU
- Abril 2008, Invitado a Brookhaven National Laboratory (BNL), EEUU
- Octubre 2007, Invitado a Brookhaven National Laboratory (BNL), EEUU
- Septiembre-Octubre 2006, Invitado a University of Firenze, Florencia, Italia
- Septiembre 2006, Invitado a Theory division CERN, Suiza
- Septiembre 2006, Invitado a ETH-Zurich, Zurich, Suiza
- Julio 2005, Invitado a ETH-Zurich, Zurich, Suiza
- Junio 2005, **Full Professor**, University of Firenze, Florencia, Italia
- Mayo 2005, Invitado a ECT\*Trento, Trento, Italia
- Octubre 2004, Invitado a Brookhaven National Laboratory (BNL), EEUU
- Febrero 2004, Invitado a KITP, Santa Barbara, EEUU
- Diciembre 2003, Invitado a Brookhaven National Laboratory (BNL), EEUU
- Septiembre 2003, Invitado a IPPP, Durham University, Durham, Inglaterra
- Abril-Mayo 2003, Invitado a Theory division CERN, Suiza
- Agosto 2002, Invitado a Brookhaven National Laboratory (BNL), EEUU
- Febrero 2002, Invitado a QCDnet-YR workshop, Parma, Italia
- Febrero 2002, Invitado a University of Firenze, Florencia, Italia
- October 2001, Invitado a Theory division CERN, Suiza
- Mayo 2001, Invitado a Workshop on Physics at TeV Colliders, Les Houches, Francia
- Enero 2001, Invitado a Centre de Physique Theorique (CPT) Luminy-Marseille, Francia
- Octubre 2000, Invitado a ENSLAPP-Annecy, Annecy, Francia
- Junio 2000, Invitado a Centre de Physique Theorique (CPT) Luminy-Marseille, Francia
- Abril 2000, Invitado a Theoretische Elementarteilchen-Physik (ThEP) group, Mainz University, Mainz, Alemania
- Marzo 2000, Invitado a Brookhaven National Laboratory (BNL), EEUU
- Febrero 2000, Invitado to Dortmund University, Dortmund, Alemania

### **SUBSIDIOS RECIBIDOS (MAS RECIENTES)**

PICT 2017-1503, “Física de Precisión en Colisionadores Hadrónicos”, Acreditado por Agencia Nacional para la Promoción de la Ciencia, Años 2017-2019 (Director), \$1.140.000

Programa de Cooperación Científico-Tecnológica MINCYT-CONICET-SNSF Argentina-Suiza, SUIZ17/05 “Probing the Higgs sector at the LHC and beyond” (2017-2020), \$150.000

PICT 2016-0384, “Física de Altas Energías y del bosón de Higgs”, Acreditado por Agencia Nacional para la Promoción de la Ciencia, Años 2017-2019 (Director), \$800.000

PICT 2013-0240, “Fenomenología de Colisionadores de Altas Energía y física del bosón de Higgs”, Acreditado por Agencia Nacional para la Promoción de la Ciencia, Años 2014-2016 (Director), \$489.840

LHCPhenonet: “Advanced Particle Phenomenology in the LHC” Proyecto 264564 de la Comunidad Europea, Años 2011-2015 (Scientist in charge- Argentina) € 234.310,48

PICT 2010-0291, “Fenomenología de colisionadores hadrónicos y búsqueda del bosón de Higgs”, Acreditado por Agencia Nacional para la Promoción de la Ciencia, Años 2011-2013 (Director), \$273.000

PICT 2006-01500, “Fenomenología de Física de Altas Energías”, Acreditado por Agencia Nacional para la Promoción de la Ciencia, Años 2008-2010 (Director) \$ 150.000

UBACYT X061, “Fenomenología de las Interacciones Fundamentales”, Acreditado por UBA, Años 2008-2010 (Director), \$ 27.000

CONICET PIP 5117 "Física de colisionadores hadrónicos de altas energías y producción del boson de Higgs", Acreditado por CONICET, Año 2005-2006 (Director), \$12.000

UBACYT X275, "Física de Colisionadores Hadrónicos y el boson de Higgs", Acreditado por UBA, Años 2004-2007 (Director), \$ 18.000

UBACYT X444, "Física de colisionadores hadrónicos a altas energías", Acreditado por UBA, Año 2003-2004 (Director) \$ 12.000

CONICET PEI 6535, "Fenomenología de Física de Altas Energías: Producción del Boson de Higgs y correcciones radiativas de QCD", Acreditado por CONICET, Años 2003-2004 (Director) \$12.000

Fundación Antorchas, "Fenomenología del Modelo Standard de las Interacciones Fundamentales", Subsidio de Iniciación de Carrera, Años 2003-2005 (Director) \$99.000

Fundación Antorchas, Reentry Grant, 2000-2002 (Director) \$15.000

UBACYT X075 "Producción de Partículas en Colisiones protón-antiprotón a altas energías", Director: Ricardo Piegaia, Acreditado por UBA, Años 2004-2007 (Co-Director)

### **Organizador (chair) de las siguientes Conferencias Científicas**

- Organizador (como chairman principal) el workshop 'QCDnet-YR', Febrero de 2001 en Zurich, Suiza.
- Organizador (Chairman principal) de la sexta edición de la Escuela Giambigi 2004 en Física de las partículas elementales y del Workshop Latinoamericano de Física de las Interacciones Fundamentales.
- Organizador del Workshop “High Precision for Hard Processes at the LHC”, Septiembre de 2006,



Zurich, Suiza.

- Organizador (Chairman principal) de la Conferencia “High Precision for Hard Processes at the LHC 2”, Octubre de 2008, Buenos Aires, Argentina.
- Convener de la sesión “QCD and Hadronic Final States” de la conferencia DIS2010, Abril 2010, Florencia, Italia.
- Organizador (Chairman principal) de la escuela y workshop PASI2012 “Exploring the Terascale and Beyond”, Marzo 2012, FCEyN-UBA.
- Convener de la sesión “QCD” de la conferencia ICHEP 2014, Junio 2014, Valencia, España.
- Organizador de la Conferencia “High Precision for Hard Processes at the LHC 5”, Septiembre de 2014, Florencia, Italia
- Organizador de la Conferencia “Prospects and Precision at the Large Hadron Collider at 14 TeV”, del 1 de Septiembre al 24 de Octubre de 2014, Florencia, Italia
- Organizador de la Conferencia “High Precision for Hard Processes at the LHC 5”, del 5 al 9 de Septiembre de 2016, ICAS-UNSAM, Argentina
- Organizador de la Conferencia “Frontiers in Physical Sciences”, Noviembre de 2016, ICAS-Max Planck, Argentina
- Organizador de la Conferencia “Institute on Spin structure of the proton”, Septiembre de 2017, ICAS-UNSAM, Argentina
- Organizador de la Conferencia “Fundamental Meets Technology”, Abril 2018, ICAS-UNSAM, Argentina
- Organizador de la Conferencia “PHENOEXP 2018”, Mayo 2018, ICAS-UNSAM, Argentina
- Organizador de las Jornadas en “Inteligencia Artificial Interdisciplinaria”, Septiembre 2019, UNSAM, Argentina

### **Charlas Plenarias en las principales conferencias internacionales (recientes)**

- Charla plenaria invitada en la conferencia DIS 2012, Bonn, Alemania (**QCD**)
- Charla plenaria invitada en la conferencia de la European Physical Society EPS 2013, Estocolmo, Suecia (**Standard Model Theory for Collider Physics**)
- Charla plenaria invitada en la conferencia DIS2014, Varsovia, Polonia (**QCD**)
- Opening talk en la conferencia Higgs Hunting 2014, París, Francia

### **Antecedentes de extensión varios:**

- Co-autor (junto a C. Acha y F.D. Mazzitelli) del contenido del sitio “Par@ Educar: Aportes para la enseñanza en el nivel medio” del portal educ.ar (2006).
- Autor del texto “La pelota SI dobla”, material de divulgación científica disponible en el sitio web del Departamento de Física, FCEyN-UBA (2006).
- Asesoramiento a la editorial Tinta Fresca (física y matemática) para la realización de una enciclopedia (2007).
- Autor del contenido científico del guión del programa de Televisión de divulgación científica “Entornos Invisibles de la Ciencia y la Tecnología: en el campo de deportes”, dirigido por Juan José Campanella y emitido por el canal Encuentro del Ministerio de Educación y Canal 7 (estreno Abril 2009).
- Artículos y notas en varios medios: Revista 23 (2006), diario Página 12 (2007 y 2008), revista Newsweek (2008,2010,2011,2012), revista “Muy Interesante”(2008), Revista “Espacio” (2008-España), RHIC-News (EEUU-2008), participación en programa de Televisión “Fox Sports” (2006), Telefé (AM -2009), Canal 13 (Mañanas Informales 2008), Canal 7 (2010,2012), diario Clarín (2006,2010,2011,2017,2019), Diario Perfil (2006,2012), Diario Crítica de la Argentina (2008), Diario La Nación (2008,2010,2011,2012) y, entre otras, radios Del Plata, Continental, Colonia, FM Palermo, FM Metro, Radio Nacional, Radio de la Madres de Plaza de Mayo, radio UBA, Nacional Rock, Radio Univ. De Córdoba.
- Autor y coordinador de los contenidos científico del guión de la serie de Televisión “Jugada de Laboratorio”, canal 7 y canal Tecnópolis TV en 2013.
- Disertante del ciclo “Ciencia y música” de Horacio Lavandera con científicos invitados, Octubre 2012.
- Disertante del ciclo “Ciencia y música” de Horacio Lavandera con científicos invitados, Octubre 2013.
- Contenidos del espacio de Física de Tecnópolis 2014-2016
- Disertante del ciclo “Coreografía Cuántica” del Coreógrafo suizo Gilles Jobin, Agosto 2016.

### **POPULARIZACION CIENTIFICA**

- “¿De que estamos hechos?”, Centro Cultural de las Ciencias, Agosto 2016
- “Transformación y Energía” y “Ondas, Música y Fourier”, Concierto de Horacio Lavandera, Teatro 3 de Febrero, Paraná, Entre Ríos, 5 de Octubre de 2013.

- “¿De que estamos hechos? Física de partículas elementales”, Instituto Segundo Fernandez, Octubre 2012
- “Partículas Elementales, las notas fundamentales de la materia” y “Movimiento Browniano, el determinismo detrás del azar”, Concierto de Horacio Lavandera, Teatro Maipo, 16 de Octubre de 2012.
- “Higgs para tod@s, ¿la última particular elemental?”, CARI, Agosto 2012
- “Bosón de Higgs, Industria Argentina (y otras)”, junto a Ricardo Piegaia y Juan Martín Maldacena, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Julio 2012.
- “Somos nada... o casi nada”, Ignite Buenos Aires 03, Buenos Aires, Octubre 2009
- “Higgs, LHC y la Física de partículas Elementales”, Taller de Periodismo Científico, Instituto Leloir, Julio 2009
- “El LHC y la Física de partículas Elementales”, Centro de Física y Metrología, INTI, Noviembre 2008
- “Física (del LHC) para matemáticos”, Seminario del Departamento de Matemática, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Septiembre 2008
- “La pelota SI dobla”, Charla de divulgación, Dictada en Semana de la Física, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Junio 2008
- “La pelota SI dobla”, Charla de divulgación, en el marco del proyecto “Exactas va a la Escuela”, Escuela ORT, Buenos Aires, Septiembre 2007
- “La pelota SI dobla”, Charla de divulgación, Dictada en Semana de la Física, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Abril 2007
- “Una Expedición al mundo Subatómico: Atomos, Núcleos y Partículas Elementales”, Charla de divulgación, Ciclo “Hoy las ciencias adelantan que es una barbaridad”, Sociedad Científica Argentina, Octubre 2005
- “Física de las Partículas Elementales”, Charla de divulgación, Ciclo Buenos Aires Piensa, Octubre 2004
- “Física de las Partículas Elementales”, Charla de divulgación, Dictada en el Colegio “Saint Andrews”, Agosto 2003
- “De que estamos hechos”, Charla de divulgación, Dictada en Semana de la Física, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Junio 2003 y Mayo 2004
- “Estados de la Materia”, Escuela n15 (DE10) “Provincia de Santa Fe”, Julio 2002