



Jose Luis Fernandez Barbon

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

My work has dealt with the interphase between quantum field theory, gravitation and string theory. After the advent of the AdS/CFT correspondence in the late 90's, the so-called holographic ideas have dominated this area, showing that string theory and quantum field theory are not fundamentally different subjects. Some Highlights of my research in this field are: Holographic model of the eta-prime meson (with C. Hoyos, D. Mateos and R. Myers). Nonrelativistic AdS/CFT (with C. Fuertes). Expander-graph models of fast scrambling (with J. Magan). Long-time quantum noise in black-hole perturbations (with E. Rabinovici). Quantum complexity of spacetime singularities (with E. Rabinovici and J. Martin-Garcia).

An entirely separated line of research which I have pursued with a different set of collaborators (J.R. Espinosa, A. Casas and J. Elias-Miro) is the evaluation of the possibility that the Higgs field of the Standard Model could serve as a primary mechanism of cosmological inflation.



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

4 sexenios (last one awarded on 09/06/2014)

Citations: 2772 (from High Energy Physics Database INSPIRE) Publications = 92 (INSPIRE)

Index h=30 (INSPIRE)



Jose Luis Fernandez Barbon

Surname(s): **Fernandez Barbon**
Name: **Jose Luis**
ORCID: **0000-0002-3602-9310**
ScopusID: **7004298114**

Current professional situation

Employing entity: Instituto de Física Teórica



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Physics Degree

Degree awarding entity: Universidad Autónoma de Madrid **Type of entity:** University

Date of qualification: 22/06/1989

Doctorates

Doctorate programme: Physics

Degree awarding entity: Universidad Autónoma de Madrid **Type of entity:** University

Date of degree: 20/11/1992

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English		C1	C1	C1	C1

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- Project title:** Fast scramblers and event horizons
Entity: Instituto de Física Teórica **Type of entity:** State agency
Student: Javier Martinez Magan
Date of reading: 2013
- Project title:** Entanglement entropy and nonrelativistic systems in the AdS/CFT correspondence
Entity: Instituto de Física Teórica **Type of entity:** State agency
Student: Carlos Fuertes
Date of reading: 2009
- Project title:** Large N methods applied to holography and planar equivalence
Entity: Instituto de Física Teórica **Type of entity:** State agency
Student: Carlos Hoyos Badajoz
Date of reading: 2006



Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** PGC2018-095976-B-C21. String Theory and the Quantum Gravity Frontier: Black Holes, Holography, Particle Physics and Cosmology
Entity where project took place: Instituto de Física Teórica **Type of entity:** State agency
City of entity: Madrid, Community of Madrid, Spain
Start-End date: 01/01/2019 - 31/12/2022
- 2** **Name of the project:** FPA2015-65480-P, "Teoría de cuerdas para la física cuántica en el LHC, cosmología y gravedad"
Entity where project took place: Instituto de Física Teórica **Type of entity:** State agency
City of entity: Madrid, Community of Madrid, Spain
Start-End date: 01/01/2016 - 31/12/2018
Total amount: 284.200 €
- 3** **Name of the project:** FPA2012-32828 "Teorías de campos y cuerdas: Teoría y fenomenología en la frontera de la física de partículas"
Entity where project took place: Instituto de Física Teórica **Type of entity:** State agency
City of entity: Madrid, Community of Madrid, Spain
Start-End date: 01/01/2013 - 31/12/2015
Total amount: 314.730 €
- 4** **Name of the project:** HEPHACOS S2009/ESP-1473 "Fenomenología de las interacciones fundamentales: campos, cuerdas y cosmología"
Entity where project took place: Instituto de Física Teórica **Type of entity:** State agency
City of entity: Madrid, Community of Madrid, Spain
Start-End date: 01/01/2010 - 31/12/2014
Total amount: 500.000 €
- 5** **Name of the project:** FPA2009-07908. Teorías de cuerdas como herramienta para el estudio de Teorías de campos a acoplo fuerte y fenomenología.
Entity where project took place: Instituto de Física Teórica **Type of entity:** State agency
City of entity: Madrid, Community of Madrid, Spain
Start-End date: 01/01/2009 - 31/12/2012
Total amount: 290.000 €
- 6** **Name of the project:** FPA2006-05485. Teorías de campos y cuerdas: aspectos teóricos y fenomenológicos
Entity where project took place: Instituto de Física Teórica **Type of entity:** State agency



City of entity: Madrid, Community of Madrid, Spain
Start-End date: 01/01/2006 - 31/12/2009
Total amount: 213.449 €

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** J.L.F. Barbón; M. Sasieta. Holographic bulk reconstruction and cosmological singularities. Journal of High Energy Physics. 2019 - 9, 2019. Available on-line at: <[http://dx.doi.org/10.1007/JHEP09\(2019\)026](http://dx.doi.org/10.1007/JHEP09(2019)026)>.

Type of production: Scientific paper
Position of signature: 1

Impact source: SCOPUS
Impact index in year of publication: 1.016

Source of citations: SCOPUS
Citations: 0

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 2** J.L.F. Barbón; E. Rabinovici; R. Shir; R. Sinha. On the evolution of operator complexity beyond scrambling. Journal of High Energy Physics. 2019 - 10, 2019. Available on-line at: <[http://dx.doi.org/10.1007/JHEP10\(2019\)264](http://dx.doi.org/10.1007/JHEP10(2019)264)>.

Type of production: Scientific paper
Position of signature: 1

Impact source: SCOPUS
Impact index in year of publication: 1.016

Source of citations: SCOPUS
Citations: 0

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 3** J.L.F. Barbón; J. Martín-García. Holographic non-computers. Journal of High Energy Physics. 2018 - 2, 2018. Available on-line at: <[http://dx.doi.org/10.1007/JHEP02\(2018\)181](http://dx.doi.org/10.1007/JHEP02(2018)181)>.

Type of production: Scientific paper
Position of signature: 1

Impact source: SCOPUS
Impact index in year of publication: 1.016

Source of citations: SCOPUS
Citations: 1

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 4** J.L.F. Barbón; J. Martín-García. Terminal holographic complexity. Journal of High Energy Physics. 2018 - 6, 2018. Available on-line at: <[http://dx.doi.org/10.1007/JHEP06\(2018\)132](http://dx.doi.org/10.1007/JHEP06(2018)132)>.

Type of production: Scientific paper
Position of signature: 1

Impact source: SCOPUS
Impact index in year of publication: 1.016

Source of citations: SCOPUS
Citations: 5

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee



- 5** J.L.F. Barbón. Formal Theory Developments. Nuclear and Particle Physics Proceedings. 273-275, pp. 135 - 137. 2016. Available on-line at: <<http://dx.doi.org/10.1016/j.nuclphysbps.2015.09.016>>.
Type of production: Scientific paper
Position of signature: 1
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: SCOPUS
Impact index in year of publication: 0.222
Source of citations: SCOPUS
Citations: 0
- 6** J.L.F. Barbón; E. Rabinovici. Holographic complexity and spacetime singularities. Journal of High Energy Physics. 2016 - 1, pp. 1 - 21. 2016. Available on-line at: <[http://dx.doi.org/10.1007/JHEP01\(2016\)084](http://dx.doi.org/10.1007/JHEP01(2016)084)>.
Type of production: Scientific paper
Position of signature: 1
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Citations: 34
- 7** J.L.F. Barbón; J.A. Casas; J. Elias-Miró; J.R. Espinosa. Higgs inflation as a mirage. Journal of High Energy Physics. 2015 - 9, 2015. Available on-line at: <[http://dx.doi.org/10.1007/JHEP09\(2015\)027](http://dx.doi.org/10.1007/JHEP09(2015)027)>.
Type of production: Scientific paper
Position of signature: 1
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Citations: 20
- 8** J.L.F. Barbón; J. Martín-García. Holographic complexity of cold hyperbolic black holes. Journal of High Energy Physics. 2015 - 11, pp. 1 - 13. 2015. Available on-line at: <[http://dx.doi.org/10.1007/JHEP11\(2015\)181](http://dx.doi.org/10.1007/JHEP11(2015)181)>.
Type of production: Scientific paper
Position of signature: 1
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Citations: 15
- 9** J.L.F. Barbón; E. Rabinovici. Geometry and quantum noise. Fortschritte der Physik. 62 - 8, pp. 626 - 646. 2014. Available on-line at: <<http://dx.doi.org/10.1002/prop.201400044>>.
Type of production: Scientific paper
Position of signature: 1
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Impact source: SCOPUS
Impact index in year of publication: 1.023
Source of citations: SCOPUS
Citations: 13



- 10** J.L.F. Barbón; E. Rabinovici. Conformal complementarity maps. Journal of High Energy Physics. 2013 - 12, pp. 1 - 32. 2013. Available on-line at: <[http://dx.doi.org/10.1007/JHEP12\(2013\)023](http://dx.doi.org/10.1007/JHEP12(2013)023)>.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS **Citations:** 11
- 11** J.L.F. Barbón; J.M. Magán. Fast scramblers and ultrametric black hole horizons. Journal of High Energy Physics. 2013 - 11, pp. 1 - 12. 2013. Available on-line at: <[http://dx.doi.org/10.1007/JHEP11\(2013\)163](http://dx.doi.org/10.1007/JHEP11(2013)163)>.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS **Citations:** 4
- 12** J.L.F. Barbón; J.M. Magán. Fast scramblers, horizons and expander graphs. Journal of High Energy Physics. 2012 - 8, 2012. Available on-line at: <[http://dx.doi.org/10.1007/JHEP08\(2012\)016](http://dx.doi.org/10.1007/JHEP08(2012)016)>.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS **Citations:** 16
- 13** J.L.F. Barbón; E. Rabinovici. AdS crunches, CFT falls and cosmological complementarity. Journal of High Energy Physics. 2011 - 4, 2011. Available on-line at: <[http://dx.doi.org/10.1007/JHEP04\(2011\)044](http://dx.doi.org/10.1007/JHEP04(2011)044)>.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS **Citations:** 33
- 14** J.L.F. Barbón; J.M. Magán. Chaotic fast scrambling at black holes. Physical Review D - Particles, Fields, Gravitation and Cosmology. 84 - 10, 2011. Available on-line at: <<http://dx.doi.org/10.1103/PhysRevD.84.106012>>.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Impact source: SCOPUS
Source of citations: SCOPUS **Citations:** 20
- 15** J.L.F. Barbón; J.M. Magán. Fast scramblers of small size. Journal of High Energy Physics. 2011 - 10, 2011. Available on-line at: <[http://dx.doi.org/10.1007/JHEP10\(2011\)035](http://dx.doi.org/10.1007/JHEP10(2011)035)>.
Type of production: Scientific paper **Format:** Journal



Position of signature: 1

Impact source: SCOPUS

Impact index in year of publication: 1.016

Source of citations: SCOPUS

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Citations: 8

- 16** J.L.F. Barbon; E. Rabinovici. Holography of AdS vacuum bubbles. Nuclear Physics B - Proceedings Supplements. 216 - 1, pp. 121 - 146. 2011. Available on-line at: <<http://dx.doi.org/10.1016/j.nuclphysbps.2011.04.152>>.

Type of production: Scientific paper

Position of signature: 1

Impact source: SCOPUS

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Citations: 4

- 17** J.L.F. Barbón; E. Rabinovici. Holography of AdS vacuum bubbles. Journal of High Energy Physics. 2010 - 4, 2010. Available on-line at: <[http://dx.doi.org/10.1007/JHEP04\(2010\)123](http://dx.doi.org/10.1007/JHEP04(2010)123)>.

Type of production: Scientific paper

Position of signature: 1

Impact source: SCOPUS

Impact index in year of publication: 1.016

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Citations: 26

- 18** J.L.F. Barbón; J. Martínez-Magán. Spontaneous fragmentation of topological black holes. Journal of High Energy Physics. 2010 - 8, 2010. Available on-line at: <[http://dx.doi.org/10.1007/JHEP08\(2010\)031](http://dx.doi.org/10.1007/JHEP08(2010)031)>.

Type of production: Scientific paper

Position of signature: 1

Impact source: SCOPUS

Impact index in year of publication: 1.016

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Citations: 16

- 19** J.L.F. Barbón. Holographic avatars of entanglement entropy. Nuclear Physics B - Proceedings Supplements. 192-193, pp. 12 - 26. 2009. Available on-line at: <<http://dx.doi.org/10.1016/j.nuclphysbps.2009.07.042>>.

Type of production: Scientific paper

Position of signature: 1

Impact source: SCOPUS

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Citations: 1

- 20** J.L.F. Barbon; C.A. Fuertes. Ideal gas matching for thermal Galilean holography. Physical Review D - Particles, Fields, Gravitation and Cosmology. 80 - 2, 2009. Available on-line at: <<http://dx.doi.org/10.1103/PhysRevD.80.026006>>.

Type of production: Scientific paper

Position of signature: 1

Impact source: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee



Source of citations: SCOPUS

Citations: 11

- 21** J.L.F. Barbón; J.R. Espinosa. On the naturalness of Higgs inflation. *Physical Review D - Particles, Fields, Gravitation and Cosmology*. 79 - 8, 2009. Available on-line at: <<http://dx.doi.org/10.1103/PhysRevD.79.081302>>.

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS

Source of citations: SCOPUS

Citations: 233

- 22** J.L.F. Barbón; C.A. Fuertes. A note on the extensivity of the holographic entanglement entropy. *Journal of High Energy Physics*. 2008 - 5, 2008. Available on-line at: <<http://dx.doi.org/10.1088/1126-6708/2008/05/053>>.

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS

Impact index in year of publication: 1.016

Source of citations: SCOPUS

Citations: 22

- 23** J.L.F. Barbón; C.A. Fuertes. Holographic entanglement entropy probes (non)locality. *Journal of High Energy Physics*. 2008 - 4, 2008. Available on-line at: <<http://dx.doi.org/10.1088/1126-6708/2008/04/096>>.

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS

Impact index in year of publication: 1.016

Source of citations: SCOPUS

Citations: 42

- 24** J.L.F. Barbón; C.A. Fuertes. On the spectrum of nonrelativistic AdS/CFT. *Journal of High Energy Physics*. 2008 - 9, 2008. Available on-line at: <<http://dx.doi.org/10.1088/1126-6708/2008/09/030>>.

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS

Impact index in year of publication: 1.016

Source of citations: SCOPUS

Citations: 73

- 25** J.L.F. Barbón; D. Gerber. A note on the topological order of noncommutative hall fluids. *International Journal of Modern Physics A*. 22 - 29, pp. 5287 - 5300. 2007. Available on-line at: <<http://dx.doi.org/10.1142/S0217751X07038050>>.

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS

Impact index in year of publication: 0.542

Source of citations: SCOPUS

Citations: 6

- 26** J.L.F. Barbón; C.A. Fuertes; E. Rabinovici. Deconstructing the little Hagedorn holography. *Journal of High Energy Physics*. 2007 - 9, 2007. Available on-line at: <<http://dx.doi.org/10.1088/1126-6708/2007/09/055>>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Citations: 10
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 27** J.L.F. Barbón; C. Hoyos. Dynamical Higgs potentials with a landscape. *Physical Review D - Particles, Fields, Gravitation and Cosmology*. 73 - 12, 2006. Available on-line at: <<http://dx.doi.org/10.1103/PhysRevD.73.126002>>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Source of citations: SCOPUS
Citations: 7
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 28** J.L. Barbón; C. Hoyos. Small volume expansion of almost supersymmetric large N theories. *Journal of High Energy Physics*. 1, pp. 2907 - 2924. 2006. Available on-line at: <<http://dx.doi.org/10.1088/1126-6708/2006/01/114>>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Citations: 10
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 29** J.L.F. Barbón; C. Hoyos. AdS/CFT, multitrace deformations and new instabilities of nonlocal string theories. *Journal of High Energy Physics*. 8 - 1, pp. 1247 - 1271. 2004.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Citations: 0
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 30** J.L.F. Barbón; E. Rabinovici. On long time unitarity restoring processes in the presence of eternal black holes. *Fortschritte der Physik*. 52 - 6-7, pp. 642 - 649. 2004. Available on-line at: <<http://dx.doi.org/10.1002/prop.200410157>>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.023
Source of citations: SCOPUS
Citations: 30
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

- 31** J.L.F. Barbón. String theory. European Physical Journal C. 33, pp. s67 - s74. 2004. Available on-line at: <<http://dx.doi.org/10.1140/epjcd/s2003-03-009-5>>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.972
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 0
- 32** J.L.F. Barbón; C. Hoyos; D. Mateos; R.C. Myers. The holographic life of the η' . Journal of High Energy Physics. 8 - 10, pp. 613 - 638. 2004.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 37
- 33** J.L.F. Barbón; E. Rabinovici. Remarks on black hole instabilities and closed string tachyons. Foundations of Physics. 33 - 1, pp. 145 - 165. 2003. Available on-line at: <<http://dx.doi.org/10.1023/A:1022823926674>>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 0.381
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 28
- 34** J.L.F. Barbón; E. Rabinovici. Very long time scales and black hole thermal equilibrium. Journal of High Energy Physics. 7 - 11, pp. 1073 - 1099. 2003.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 38
- 35** J.L.F. Barbón; E. Rabinovici. Closed-string tachyons and the Hagedorn transition in AdS space. Journal of High Energy Physics. 6 - 3, pp. 1355 - 1378. 2002.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 29

- 36** L. Alvarez-Gaumé; J.L.F. Barbón. Morita duality and large-N limits. Nuclear Physics B. 623 - 1-2, pp. 165 - 200. 2002. Available on-line at: <[http://dx.doi.org/10.1016/S0550-3213\(01\)00624-1](http://dx.doi.org/10.1016/S0550-3213(01)00624-1)>.
Type of production: Scientific paper
Position of signature: 2
Impact source: SCOPUS
Impact index in year of publication: 1.309
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 23
- 37** J.L.F. Barbón. Multitrace AdS/CFT and master field dynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 543 - 3-4, pp. 283 - 290. 2002. Available on-line at: <[http://dx.doi.org/10.1016/S0370-2693\(02\)02464-4](http://dx.doi.org/10.1016/S0370-2693(02)02464-4)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.806
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 7
- 38** J.L.F. Barbón; A. Paredes. Noncommutative field theory and the dynamics of quantum hall fluids. International Journal of Modern Physics A. 17 - 25, pp. 3589 - 3606. 2002. Available on-line at: <<http://dx.doi.org/10.1142/S0217751X02011011>>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 0.542
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 17
- 39** A. Armoni; J.L.F. Barbón; A.C. Petkou. Orbiting strings in AdS black holes and $N = 4$ SYM at finite temperature. Journal of High Energy Physics. 6 - 6, pp. 1371 - 1387. 2002.
Type of production: Scientific paper
Position of signature: 2
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 29
- 40** A. Armoni; J.L.F. Barbón; A.C. Petkou. Rotating strings in confining AdS/CFT backgrounds. Journal of High Energy Physics. 6 - 10, pp. 1575 - 1589. 2002.
Type of production: Scientific paper
Position of signature: 2
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 32

- 41** L. Alvarez-Gaumé; J.L.F. Barbón. Nonlinear vacuum phenomena in noncommutative QED. International Journal of Modern Physics A. 16 - 6, pp. 1123 - 1146. 2001. Available on-line at: <<http://dx.doi.org/10.1142/S0217751X01002750>>.
- Type of production:** Scientific paper
Position of signature: 2
- Impact source:** SCOPUS
Impact index in year of publication: 0.542
- Source of citations:** SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Citations:** 58
- 42** J.L.F. Barbón; E. Rabinovici. On the nature of the Hagedorn transition in NCOS systems. Journal of High Energy Physics. 5 - 6, 2001.
- Type of production:** Scientific paper
Position of signature: 1
- Impact source:** SCOPUS
Impact index in year of publication: 1.016
- Source of citations:** SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Citations:** 6
- 43** L. Alvarez-Gaumé; J.L.F. Barbón; R. Zwicky. Remarks on time-space non-commutative field theories. Journal of High Energy Physics. 5 - 5, 2001.
- Type of production:** Scientific paper
Position of signature: 2
- Impact source:** SCOPUS
Impact index in year of publication: 1.016
- Source of citations:** SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Citations:** 75
- 44** J.L.F. Barbón; A. Pasquinucci. A note on interactions of (non-commutative) instantons via AdS/CFT. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 482 - 1-3, pp. 293 - 301. 2000. Available on-line at: <[http://dx.doi.org/10.1016/S0370-2693\(00\)00518-9](http://dx.doi.org/10.1016/S0370-2693(00)00518-9)>.
- Type of production:** Scientific paper
Position of signature: 1
- Impact source:** SCOPUS
Impact index in year of publication: 1.806
- Source of citations:** SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Citations:** 3
- 45** G. Arcioni; J.L.F. Barbón; J. Gomis; M.A. Vázquez-Mozo. On the stringy nature of winding modes in non-commutative thermal field theories. Journal of High Energy Physics. 4 - 6, pp. 1 - 23. 2000.
- Type of production:** Scientific paper
Position of signature: 2
- Impact source:** SCOPUS
Impact index in year of publication: 1.016
- Source of citations:** SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Citations:** 12

- 46** J.L.F. Barbón; E. Rabinovici. Stringy fuzziness as the custodian of time-space noncommutativity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 486 - 1-2, pp. 202 - 211. 2000. Available on-line at: <[http://dx.doi.org/10.1016/S0370-2693\(00\)00735-8](http://dx.doi.org/10.1016/S0370-2693(00)00735-8)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.806
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 77
- 47** J.L.F. Barbón; A. Pasquinucci. Aspects of instanton dynamics in AdS/CFT duality. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 458 - 2-3, pp. 288 - 296. 1999. Available on-line at: <[http://dx.doi.org/10.1016/S0370-2693\(99\)00607-3](http://dx.doi.org/10.1016/S0370-2693(99)00607-3)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.806
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 19
- 48** J.L.F. Barbón; A. Pasquinucci. D0-branes as instantons in D = 4 super Yang-Mills theories. Fortschritte der Physik. 47 - 1-3, pp. 255 - 262. 1999.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.023
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 2
- 49** J.L.F. Barbón; E. Rabinovici. Extensivity versus holography in anti-de sitter spaces. Nuclear Physics B. 545 - 1-3, pp. 371 - 384. 1999. Available on-line at: <[http://dx.doi.org/10.1016/S0550-3213\(98\)00824-4](http://dx.doi.org/10.1016/S0550-3213(98)00824-4)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.309
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 18
- 50** J.L.F. Barbon; E. Rabinovici. On 1/N corrections to the entropy of noncommutative Yang-Mills theories. Journal of High Energy Physics. 3 - 12, 1999.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 15



- 51** J.L.F. Barbón; I.I. Kogan; E. Rabinovici. On stringy thresholds in SYM/AdS thermodynamics. Nuclear Physics B. 544 - 1-2, pp. 104 - 144. 1999. Available on-line at: <[http://dx.doi.org/10.1016/S0550-3213\(98\)00868-2](http://dx.doi.org/10.1016/S0550-3213(98)00868-2)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.309
Source of citations: SCOPUS
Citations: 69
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 52** S.A. Abel; J.L.F. Barbón; I.I. Kogan; E. Rabinovici. String thermodynamics in D-brane backgrounds. Journal of High Energy Physics. 3 - 4, 1999.
Type of production: Scientific paper
Position of signature: 2
Impact source: SCOPUS
Impact index in year of publication: 1.016
Source of citations: SCOPUS
Citations: 42
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 53** J.L.F. Barbón; A. Pasquinucci. A note on softly broken MQCD. Modern Physics Letters A. 13 - 18, pp. 1453 - 1462. 1998. Available on-line at: <<http://dx.doi.org/10.1142/S0217732398001534>>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 0.546
Source of citations: SCOPUS
Citations: 4
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 54** J.L.F. Barbón; A. Pasquinucci. D0-branes, constrained instantons and D = 4 Super Yang-Mills theories. Nuclear Physics B. 517 - 1-3, pp. 125 - 141. 1998. Available on-line at: <[http://dx.doi.org/10.1016/S0550-3213\(97\)00819-5](http://dx.doi.org/10.1016/S0550-3213(97)00819-5)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.309
Source of citations: SCOPUS
Citations: 8
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 55** J.L.F. Barbón; J.L. Mañes; M.A. Vázquez-Mozo. Large N limit of extremal non-supersymmetric black holes. Nuclear Physics B. 536 - 1-2, pp. 279 - 300. 1998. Available on-line at: <[http://dx.doi.org/10.1016/S0550-3213\(98\)00554-9](http://dx.doi.org/10.1016/S0550-3213(98)00554-9)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.309
Source of citations: SCOPUS
Citations: 2
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

- 56** J.L.F. Barbón; A. Pasquinucci. Softly broken MQCD and the theta angle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 421 - 1-4, pp. 131 - 138. 1998. Available on-line at: <[http://dx.doi.org/10.1016/S0370-2693\(97\)01587-6](http://dx.doi.org/10.1016/S0370-2693(97)01587-6)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.806
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 9
- 57** J.L.F. Barbón; M.A. Vázquez-Mozo. Dilute D-instantons at finite temperature. Nuclear Physics B. 497 - 1-2, pp. 236 - 274. 1997. Available on-line at: <[http://dx.doi.org/10.1016/S0550-3213\(97\)00256-3](http://dx.doi.org/10.1016/S0550-3213(97)00256-3)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.309
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 18
- 58** J.L.F. Barbón. Fermion exchange between D-instantons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 404 - 1-2, pp. 33 - 40. 1997. Available on-line at: <[http://dx.doi.org/10.1016/S0370-2693\(97\)00555-8](http://dx.doi.org/10.1016/S0370-2693(97)00555-8)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.806
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 4
- 59** J.L.F. Barbón. Remarks on the classical size of [Formula presented]-branes. Physical Review D - Particles, Fields, Gravitation and Cosmology. 56 - 4, pp. 2457 - 2460. 1997. Available on-line at: <<http://dx.doi.org/10.1103/PhysRevD.56.2457>>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 1
- 60** J.L.F. Barbón. Rotated branes and $N = 1$ duality. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 402 - 1-2, pp. 59 - 63. 1997. Available on-line at: <[http://dx.doi.org/10.1016/S0370-2693\(97\)00451-6](http://dx.doi.org/10.1016/S0370-2693(97)00451-6)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.806
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 61

- 61** J.L.F. Barbón; S. Ramgoolam. Some properties of unstable monopoles in super-QCD. *Physical Review D - Particles, Fields, Gravitation and Cosmology*. 55 - 2, pp. 1013 - 1020. 1997. Available on-line at: <<http://dx.doi.org/10.1103/PhysRevD.55.1013>>.
- Type of production:** Scientific paper
Position of signature: 1
- Impact source:** SCOPUS
Source of citations: SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Citations:** 0
- 62** J.L.F. Barbón; M.A. Vázquez-Mozo. Complex world-sheets from $N = 2$ strings. *Nuclear Physics B*. 475 - 1-2, pp. 244 - 270. 1996. Available on-line at: <[http://dx.doi.org/10.1016/0550-3213\(96\)00330-6](http://dx.doi.org/10.1016/0550-3213(96)00330-6)>.
- Type of production:** Scientific paper
Position of signature: 1
- Impact source:** SCOPUS
Impact index in year of publication: 1.309
- Source of citations:** SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Citations:** 1
- 63** J.L.F. Barbón. D-brane form factors at high energy. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*. 382 - 1-2, pp. 60 - 64. 1996. Available on-line at: <[http://dx.doi.org/10.1016/0370-2693\(96\)00599-0](http://dx.doi.org/10.1016/0370-2693(96)00599-0)>.
- Type of production:** Scientific paper
Position of signature: 1
- Impact source:** SCOPUS
Impact index in year of publication: 1.806
- Source of citations:** SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Citations:** 22
- 64** E. Alvarez; J.L.F. Barbón; J. Borlaf. T-duality for open strings. *Nuclear Physics B*. 479 - 1-2, pp. 218 - 242. 1996. Available on-line at: <[http://dx.doi.org/10.1016/0550-3213\(96\)00455-5](http://dx.doi.org/10.1016/0550-3213(96)00455-5)>.
- Type of production:** Scientific paper
Position of signature: 2
- Impact source:** SCOPUS
Impact index in year of publication: 1.309
- Source of citations:** SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Citations:** 54
- 65** J.L.F. Barbón; K. Demeterfi; I.R. Klebanov; C. Schmidhuber. Correlation functions in matrix models modified by wormhole terms. *Nuclear Physics, Section B*. 440 - 1-2, pp. 189 - 214. 1995. Available on-line at: <[http://dx.doi.org/10.1016/0550-3213\(95\)00084-6](http://dx.doi.org/10.1016/0550-3213(95)00084-6)>.
- Type of production:** Scientific paper
Position of signature: 1
- Impact source:** SCOPUS
Impact index in year of publication: 1.309
- Source of citations:** SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Citations:** 21



- 66** J.L.F. Barbón; K. Demeterfi. Effective hamiltonians for $1/N$ expansion in two-dimensional QCD. Nuclear Physics, Section B. 434 - 1-2, pp. 109 - 138. 1995. Available on-line at: <[http://dx.doi.org/10.1016/0550-3213\(94\)00442-H](http://dx.doi.org/10.1016/0550-3213(94)00442-H)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.309
Source of citations: SCOPUS
Citations: 8
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 67** J.L.F. Barbón. Generalized abelian S-duality and coset constructions. Nuclear Physics, Section B. 452 - 1-2, pp. 313 - 330. 1995. Available on-line at: <[http://dx.doi.org/10.1016/0550-3213\(95\)00372-Y](http://dx.doi.org/10.1016/0550-3213(95)00372-Y)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.309
Source of citations: SCOPUS
Citations: 15
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 68** J.L.F. Barbón; R. Emparan. Quantum black hole entropy and Newton constant renormalization. Physical Review D. 52 - 8, pp. 4527 - 4539. 1995. Available on-line at: <<http://dx.doi.org/10.1103/PhysRevD.52.4527>>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Source of citations: SCOPUS
Citations: 26
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 69** J.L.F. Barbon. Horizon divergences of fields and strings in black hole backgrounds. Physical Review D. 50 - 4, pp. 2712 - 2718. 1994. Available on-line at: <<http://dx.doi.org/10.1103/PhysRevD.50.2712>>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Source of citations: SCOPUS
Citations: 38
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 70** J.L.F. Barbón. Remarks on thermal strings outside black hole. Physics Letters B. 339 - 1-2, pp. 41 - 48. 1994. Available on-line at: <[http://dx.doi.org/10.1016/0370-2693\(94\)91130-4](http://dx.doi.org/10.1016/0370-2693(94)91130-4)>.
Type of production: Scientific paper
Position of signature: 1
Impact source: SCOPUS
Impact index in year of publication: 1.806
Source of citations: SCOPUS
Citations: 15
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 71** E. Alvarez; L. Alvarez-Gaumé; J.L.F. Barbón; Y. Lozano. Some global aspects of duality in String Theory. Nuclear Physics, Section B. 415 - 1, pp. 71 - 100. 1994. Available on-line at: <[http://dx.doi.org/10.1016/0550-3213\(94\)90067-1](http://dx.doi.org/10.1016/0550-3213(94)90067-1)>.



Type of production: Scientific paper
Position of signature: 3

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS
Impact index in year of publication: 1.309

Source of citations: SCOPUS

Citations: 176

- 72** L. Alvarez-Gaumé; J.L.F. Barbón; Č. Crnković. A proposal for strings at $D > 6$; 1. Nuclear Physics, Section B. 394 - 2, pp. 383 - 422. 1993. Available on-line at: [http://dx.doi.org/10.1016/0550-3213\(93\)90020-P](http://dx.doi.org/10.1016/0550-3213(93)90020-P).

Type of production: Scientific paper
Position of signature: 2

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS
Impact index in year of publication: 1.309

Source of citations: SCOPUS

Citations: 38

- 73** J.L.F. Barbón. Effective matrix models for $d > 1$ strings. Theoretical and Mathematical Physics. 95 - 2, pp. 499 - 510. 1993. Available on-line at: <http://dx.doi.org/10.1007/BF01017134>.

Type of production: Scientific paper
Position of signature: 1

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS
Impact index in year of publication: 0.386

Source of citations: SCOPUS

Citations: 0

- 74** L. Alvarez-Gaumé; J.L.F. Barbón; C. Gómez. Fusion rules in two-dimensional gravity. Nuclear Physics, Section B. 368 - 1, pp. 57 - 78. 1992. Available on-line at: [http://dx.doi.org/10.1016/0550-3213\(92\)90197-J](http://dx.doi.org/10.1016/0550-3213(92)90197-J).

Type of production: Scientific paper
Position of signature: 2

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS
Impact index in year of publication: 1.309

Source of citations: SCOPUS

Citations: 6

- 75** J.L.F. Barbón. Space-time duality and discrete strings. Nuclear Physics B (Proceedings Supplements). 25 - PART 1, pp. 31 - 37. 1992. Available on-line at: [http://dx.doi.org/10.1016/S0920-5632\(05\)80005-2](http://dx.doi.org/10.1016/S0920-5632(05)80005-2).

Type of production: Scientific paper
Position of signature: 1

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS

Source of citations: SCOPUS

Citations: 0

- 76** E. Alvarez; J.L.F. Barbón. Spacetime R-duality in discretized string theories. Physics Letters B. 258 - 1-2, pp. 75 - 80. 1991. Available on-line at: [http://dx.doi.org/10.1016/0370-2693\(91\)91212-E](http://dx.doi.org/10.1016/0370-2693(91)91212-E).

Type of production: Scientific paper
Position of signature: 2

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee



Impact source: SCOPUS

Impact index in year of publication: 1.806

Source of citations: SCOPUS

Citations: 3

- 77** E. Alvarez; J.L.F. Barbón. Self-dual formulation of the Ising model in a random lattice. Physics Letters B. 252 - 3, pp. 431 - 435. 1990. Available on-line at: <[http://dx.doi.org/10.1016/0370-2693\(90\)90565-N](http://dx.doi.org/10.1016/0370-2693(90)90565-N)>.

Type of production: Scientific paper

Format: Journal

Position of signature: 2

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS

Impact index in year of publication: 1.806

Source of citations: SCOPUS

Citations: 1

- 78** J.L.F. Barbón; E. Rabinovici. Aspects of hagedorn holography. Les Houches Summer School Proceedings. 87, pp. 449 - 451. 2008. Available on-line at: <[http://dx.doi.org/10.1016/S0924-8099\(08\)80028-5](http://dx.doi.org/10.1016/S0924-8099(08)80028-5)>.

Format: Journal

Position of signature: 1

Impact source: SCOPUS

Source of citations: SCOPUS

Citations: 1

R&D management and participation in scientific committees

Organization of R&D activities

- 1** **Title of the activity:** Entangle This IV
Type of activity: Workshop **Geographical area:** European Union
Convening entity: Instituto de Física Teórica **Type of entity:** State agency
City convening entity: Madrid, Community of Madrid, Spain
Start date: 2019 **Duration:** 5 days
- 2** **Title of the activity:** Entangle This III
Type of activity: Workshop **Geographical area:** European Union
Convening entity: Instituto de Física Teórica **Type of entity:** State agency
City convening entity: Madrid, Community of Madrid, Spain
Start date: 2017 **Duration:** 5 days
- 3** **Title of the activity:** Entangle This II
Type of activity: Workshop **Geographical area:** European Union
Convening entity: Instituto de Física Teórica **Type of entity:** State agency
City convening entity: Madrid, Community of Madrid, Spain
Start date: 2015 **Duration:** 5 days
- 4** **Title of the activity:** Black hole horizons and quantum information
Type of activity: Workshop **Geographical area:** Non EU International
Convening entity: CERN **Type of entity:** R&D Centre
City convening entity: Geneva, Switzerland

**Start date:** 2013**Duration:** 9 days**5 Title of the activity:** Entangle This I**Type of activity:** Workshop**Convening entity:** Instituto de Física Teórica**City convening entity:** Madrid, Community of Madrid, Spain**Start date:** 2013**Geographical area:** European Union**Type of entity:** State agency**Duration:** 5 days**6 Title of the activity:** AdS4 / CFT3 and the holographic states of matter**Type of activity:** Research Program**Convening entity:** Galileo Galilei Institute**City convening entity:** Florence, Toscana, Italy**Start date:** 2010**Geographical area:** European Union**Type of entity:** R&D Centre**Duration:** 2 months**7 Title of the activity:** Strings and QCD**Type of activity:** Scientific Program**Convening entity:** FUNDACION CENTRO DE CIENCIAS DE BENASQUE**City convening entity:** Benasque, Aragon, Spain**Start date:** 2006**Geographical area:** European Union**Duration:** 15 days**R&D management****Name of the activity:** Deputy Director**Type of management:** Management of body**Entity:** Instituto de Física Teórica**Start date:** 2018**Type of entity:** State agency**Duration:** 3 years**Other achievements****Stays in public or private R&D centres****1 Entity:** Universidad de Santiago de Compostela**Faculty, institute or centre:** Facultad de Física**City of entity:** Santiago de Compostela, Galicia, Spain**Start-End date:** 1999 - 2005**Goals of the stay:** Contracted**Provable tasks:** Research**Type of entity:** University**Duration:** 6 years**2 Entity:** CERN**Faculty, institute or centre:** Theory Division**City of entity:** Geneva, Switzerland**Start-End date:** 1999 - 2005**Goals of the stay:** Contracted**Provable tasks:** Research**Type of entity:** R&D Centre**Duration:** 6 years**3 Entity:** University of Utrecht**Faculty, institute or centre:** Physics**City of entity:** Utrecht, Utrecht, Holland**Type of entity:** University



Start-End date: 1998 - 1999
Goals of the stay: Post-doctoral
Provable tasks: Research

Duration: 1 year

4 **Entity:** CERN
Faculty, institute or centre: Theory Division
City of entity: Geneva, Switzerland
Start-End date: 1996 - 1998
Goals of the stay: Post-doctoral
Provable tasks: Research

Type of entity: R&D Centre

Duration: 2 years

5 **Entity:** Princeton University
Faculty, institute or centre: Physics
City of entity: Princeton, United States of America
Start-End date: 1993 - 1996
Goals of the stay: Post-doctoral
Provable tasks: Research

Type of entity: University

Duration: 3 years