

1. Personal details

Surnames and first name		ID/passport number	
Fayos Valles, Francisco		40904918Q	
Nationality	Date of birth	Sex	
Espanya	09/09/1952	<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	
Address			
ETSAB, EDIFICI A, AVDA. DIAGONAL, 649, 08028 BARCELONA			

2. Current job status

Institution/organization/company		School	
Universitat Politècnica de Catalunya		Barcelona School of Architecture (ETSAB)	
Department/section/unit			
Department of Physics			
Post held		Start date	
Associate professor		01/02/2013	
Administrative status			
<input checked="" type="checkbox"/> Publicly contracted	<input type="checkbox"/> Open-ended contract	<input type="checkbox"/> Grant holder	<input type="checkbox"/> Untenured lecturer/Temporary
<input type="checkbox"/> Emeritus	<input type="checkbox"/> Fixed-term contract	<input type="checkbox"/> Statutory	<input type="checkbox"/> Other
Commitment		Specialisation (UNESCO codes)	
<input checked="" type="checkbox"/> Full-time	<input type="checkbox"/> Part-time		

3. Education

Undergraduate degree/1st cycle/1st and 2nd cycle/2nd cycle	School	Date of graduation
1. Diploma holder. Ingeniero Tec. Telecomunicaciones	1. Universidad Laboral Alcalá de Henares	1. 30/09/1972
2. Degree holder. Llicenciat en Ciències Físiques	2. Universitat de Barcelona	2. 01/07/1977

Doctoral degree	School	Date of graduation
1. Doctor en Ciències Físiques	1. Universitat de Barcelona	1. 20/01/1984

4. Scientific or professional activities prior to current status

Category	Institution	Period
1. Encarregat de Curs ETS	1. Universitat Politècnica de Catalunya	1. 01/10/1979 - 30/09/1982
2. Collaborating professor	2. Universitat Politècnica de Catalunya	2. 01/10/1982 - 30/09/1984
3. Adjunt Contractat (ETS)	3. Universitat Politècnica de Catalunya	3. 01/10/1984 - 21/08/1986
4. Associate professor	4. Universitat Politècnica de Catalunya	4. 22/08/1986 - 31/01/2013
5. Sotsdirector	5. Universitat Politècnica de Catalunya	5. 01/12/1994 - 04/12/2001
6. Cap d'Estudis	6. Universitat Politècnica de Catalunya	6. 01/12/1997 - 04/12/2001
7. Vicerector de Recerca i Projectes Específics	7. Universitat Politècnica de Catalunya	7. 24/04/2002 - 28/07/2003
8. Vicerector de Política Científica	8. Universitat Politècnica de Catalunya	8. 29/07/2003 - 28/03/2006

5. Languages (A = excellent, B = good, C = fair)

Language	Speaking	Reading	Writing
1. English	1. Regular	1. Bé	1. Bé
2. French	2. Bé	2. Bé	2. Bé

Authors: Torres, R.; Fayos, F.

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofisiques

Title: On how energy conservation might prevent black hole explosions and violations of the third law

Journal (title, volume, first-last page): International journal of modern physics D, vol. 23, no. 1, pp. 1450009-1-1450009-15

ISSN: 0218-2718

Year: 2013

Impact assessment agencies: JCR-Science Edition (2013)

Impact factor: 1.42

Number of citations:

Category Name: ASTRONOMY & ASTROPHYSICS

Position of total number of Journals: 35 / 59

Third: T2

Quartile: Q3

Link to text: <http://www.worldscientific.com/doi/abs/10.1142/S0218271814500096>

Authors: Torres, R.; Fayos, F.; Lorente, O.

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofisiques

Title: The mechanism why colliders could create quasi-stable black holes

Journal (title, volume, first-last page): International journal of modern physics D, vol. 22, no. 13, pp. 1350086-1-1350086-15

ISSN: 0218-2718

Year: 2013

Impact assessment agencies: JCR-Science Edition (2013)

Impact factor: 1.42

Number of citations:

Category Name: ASTRONOMY & ASTROPHYSICS

Position of total number of Journals: 35 / 59

Third: T2

Quartile: Q3

Link to text: <http://www.worldscientific.com/doi/abs/10.1142/S0218271813500867>

Authors: Torres, R.; Fayos, F.; Lorente-Espín, O.

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofisiques

Title: On the effect of energy conservation on black hole evaporation

Journal (title, volume, first-last page): International journal of modern physics D, vol. 22, no. 1350037, pp. 1350037-1350037

ISSN: 0218-2718

Year: 2013

Impact assessment agencies: JCR-Science Edition (2013)

Impact factor: 1.42

Number of citations: 1

Category Name: ASTRONOMY & ASTROPHYSICS

Position of total number of Journals: 35 / 59

Third: T2

Quartile: Q3

Link to text: <http://www.worldscientific.com/doi/abs/10.1142/S0218271813500375>

Authors: Torres, R.; Fayos, F.; Lorente-Espín, O.

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofisiques

Title: Evaporation of (quantum) black holes and energy conservation

Journal (title, volume, first-last page): Physics letters B, vol. 720, pp. 198-204

ISSN: 0370-2693

Year: 2013

Impact assessment agencies: JCR-Science Edition (2013)

Impact factor: 6.019

Number of citations: 9

Category Name: PHYSICS, MULTIDISCIPLINARY

Position of total number of Journals: 7 / 78

Third: T1

Quartile: Q1

Link to text: www.elsevier.com/locate/physletb

Authors: Fayos, F.; Torres, R.

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofisiques

Title: On the invariant causal characterization of singularities in spherically symmetric spacetimes

Journal (title, volume, first-last page): Classical and quantum gravity, vol. 29, no. 9, pp. 095019

ISSN: 0264-9381

Year: 2012

Impact assessment agencies: JCR-Science Edition (2012)

Impact factor: 3.562

Number of citations: 1

Category Name: PHYSICS, MULTIDISCIPLINARY

Position of total number of Journals: 11 / 83

Third: T1

Quartile: Q1

Link to text: <http://iopscience.iop.org/0264-9381/29/9/095019>

Authors: Fayos, F.; Torres, R.
Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofísiques
Title: On the causal characterization of singularities in spherically symmetric spacetimes
Journal (title, volume, first-last page): Classical and quantum gravity, vol. 28, no. 21, pp. 1-34
ISSN: 0264-9381 **Year:** 2011
Impact assessment agencies: JCR-Science Edition (2011) **Impact factor:** 3.32 **Number of citations:** 5
Category Name: PHYSICS, MULTIDISCIPLINARY
Position of total number of Journals: 10 / 82 **Third:** T1 **Quartile:** Q1
Link to text: <http://iopscience.iop.org/0264-9381/28/21/215023>

Authors: Fayos, F.; Torres, R.
Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofísiques
Title: An approach to evaporating stars and black holes
Journal (title, volume, first-last page): Journal of physics: conference series, vol. 314, pp. 1-3
ISSN: 1742-6588 **Year:** 2011
Impact assessment agencies: SJR - SCImago Journal Rank (2011) **Impact factor:** 0.292 **Number of citations:**
Category Name:
Position of total number of Journals: **Third:** **Quartile:** Q3
Link to text: <http://iopscience.iop.org/1742-6596/314/1/012127/>

Authors: Fayos, F.; Torres, R.
Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofísiques
Title: A quantum improvement to the gravitational collapse of radiating stars
Journal (title, volume, first-last page): Classical and quantum gravity, vol. 28, no. 10
ISSN: 0264-9381 **Year:** 2011
Impact assessment agencies: JCR-Science Edition (2011) **Impact factor:** 3.32 **Number of citations:** 9
Category Name: PHYSICS, MULTIDISCIPLINARY
Position of total number of Journals: 10 / 82 **Third:** T1 **Quartile:** Q1
Link to text: <http://iopscience.iop.org/0264-9381/28/10/105004>

Authors: Fayos, F.; Torres, R.
Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofísiques
Title: Local behaviour of evaporating stars and black holes around the total evaporation event
Journal (title, volume, first-last page): Classical and quantum gravity, vol. 27, no. 12, pp. 125011
ISSN: 0264-9381 **Year:** 2010
Impact assessment agencies: JCR-Science Edition (2010) **Impact factor:** 3.099 **Number of citations:** 6
Category Name: PHYSICS, MULTIDISCIPLINARY
Position of total number of Journals: 13 / 79 **Third:** T1 **Quartile:** Q1
Link to text: <http://iopscience.iop.org/0264-9381/27/12/125011/>

A.3 Books

Authors: Fayos, F.; Torres, R.
Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofísiques
Title: Física aplicada al càlcul estructural arquitectònic
Publisher: Iniciativa Digital Politècnica
ISBN: 9788498806403
Legal deposit no.: B 6775-2017 **Year:** 2017
Link to book: <http://hdl.handle.net/2117/102789>

C. Projects and intellectual and industrial property

C.1 Participation in R&D calls

Type of participation: Researcher

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofísiques; GEOMVAP - Geometry of Manifolds and Applications; ACES - Advanced Control of Energy Systems; DGDSA - Differential Geometry, Dynamical Systems and Applications

Code of funding body : MTM2014-54855-P

Title: ASPECTOS GEOMETRICOS EN MECANICA, CONTROL, TEORIA DE CAMPOS Y GRAVITACION

Start date: 01/01/2015

End date: 31/12/2017

Duration: 3 Year/s

Funding: 57112.00 €

Scope: National

Participants: 7

Institution in which the research was undertaken: Universitat Politècnica de Catalunya

Funding bodies: Ministerio de Economía y Competitividad

Participating institutions:

Head researcher: Roman-Roy, N.

Type of participation: Researcher

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofísiques; GEOMVAP - Geometry of Manifolds and Applications; ACES - Advanced Control of Energy Systems; DGDSA - Differential Geometry, Dynamical Systems and Applications

Code of funding body : MTM2014-54855-P

Title: Aspectos Geométricos en Mecánica, Control, Teoría de Campos y Gravitación

Start date: 01/01/2015

End date: 30/06/2019

Duration: 4 Year/s 6 Month/s

Funding: 57112.00 €

Scope: National

Participants: 1

Institution in which the research was undertaken: MATEMÀTIQUES

Funding bodies: MIN DE ECONOMIA Y COMPETITIVIDAD

Participating institutions:

Head researcher: Roman-Roy, N.

E. Contributions to publications and theses

E.4 Supervision or tutoring of theses and membership of assessment panels

Type of contribution: President

Work type: Treball de fi de grau

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofísiques; GEOMVAP - Geometry of Manifolds and Applications

Title: Singularity Theorems

Date of oral defence: 15/02/2017

Authors: Basquens Muñoz, Marc

Institution: Universitat Politècnica de Catalunya

Link to document:

Type of contribution: Vocal

Work type: Pla de recerca

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofísiques; GEOMVAP - Geometry of Manifolds and Applications; DGDSA - Differential Geometry, Dynamical Systems and Applications

Title: A Multisymplectic Approach to Gravitational Theories

Date of oral defence: 05/10/2016

Authors: Gaset Rifà, Jordi

Institution: Universitat Politècnica de Catalunya

Link to document:

Type of contribution: Supervisor

Work type: Treball de fi de grau

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofisiques; GEOMVAP - Geometry of Manifolds and Applications; GAA - Astronomy and Astrophysics Group

Title: Models Cosmològics en el Marc de la Teoria General de la Relativitat

Date of oral defence: 29/06/2016

Authors: Ribera Manzano, Pablo

Institution: Universitat Politècnica de Catalunya

Link to document:

Type of contribution: Supervisor

Work type: Treball de fi de grau

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofisiques; GEOMVAP - Geometry of Manifolds and Applications; ACES - Advanced Control of Energy Systems

Title: Solucions exactes de les equacions d'Einstein

Date of oral defence: 13/05/2016

Authors: Martinez Portillo, Joan

Institution: Universitat Politècnica de Catalunya

Link to document:

Type of contribution: Secretari

Work type: Tesi doctoral

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofisiques; AR.I.EN - Architecture, Industry and Engineering; GIRAS - Research Group on Architecture: Project, Territory and Society

Title: The structuring of architectutal space by gravity and light

Date of oral defence: 27/02/2015

Authors: Linares, O.

Institution: Universitat Politècnica de Catalunya

Link to document: <http://hdl.handle.net/10803/401286>

Type of contribution: President

Work type: Tesi doctoral

Research groups : DF - Dinàmica de Fluids: formació d'estructures i aplicacions geofisiques; GAA - Astronomy and Astrophysics Group

Title: Hawking radiation in NS5 and Little String Theory

Date of oral defence: 20/09/2012

Authors: Lorente, O.

Institution: Universitat Politècnica de Catalunya

Link to document: <http://www.tdx.cat/handle/10803/96780>

H. Actividades de docencia

H.2 Coordination teaching

Type coordination: Implantació Noves assignatures (Obligatòries/Categoria-A)

Course academic: 2010

Body: Universitat Politècnica de Catalunya

School: Barcelona School of Architecture (ETSAB)

Course: Physics I

Hours coordination: 4

Type coordination: Implantació Noves assignatures (Obligatòries/Categoria-A)

Course academic: 2010

Body: Universitat Politècnica de Catalunya

School: Barcelona School of Architecture (ETSAB)

Course: Physics II

Hours coordination: 4

Type coordination: Responsable d'assignatures

Course academic: 2010

Body: Universitat Politècnica de Catalunya

School: Barcelona School of Architecture (ETSAB)

Course: Physics I

Hours coordination: 6

Type coordination: Responsable d'assignatures

Course academic: 2010

Body: Universitat Politècnica de Catalunya

School: Barcelona School of Telecommunications Engineering

Course: Relativity

Hours coordination: 5

Type coordination: Responsable d'assignatures

Course academic: 2011

Body: Universitat Politècnica de Catalunya

School: Barcelona School of Architecture (ETSAB)

Course: Physics I

Hours coordination: 13

Type coordination: Responsable d'assignatures

Course academic: 2012

Body: Universitat Politècnica de Catalunya

School: Barcelona School of Architecture (ETSAB)

Course: Physics I

Hours coordination: 13

Type coordination: Responsable d'assignatures

Course academic: 2013

Body: Universitat Politècnica de Catalunya

School: Barcelona School of Architecture (ETSAB)

Course: Physics I

Hours coordination: 13

Type coordination: Implantació Noves assignatures (Optatives/Categoria-A)

Course academic: 2014

Body: Universitat Politècnica de Catalunya

School: School of Mathematics and Statistics (FME)

Course: General Relativity

Hours coordination: 11

Type coordination: Responsable d'assignatures

Course academic: 2014

Body: Universitat Politècnica de Catalunya

School: School of Mathematics and Statistics (FME)

Course: General Relativity

Hours coordination: 5

Type coordination: Responsable d'assignatures

Course academic: 2014

Body: Universitat Politècnica de Catalunya

School: Barcelona School of Architecture (ETSAB)

Course: The Role of Science and Technology in Contemporary Culture

Hours coordination: 6

Type coordination: Responsable d'assignatures

Course academic: 2015

Body: Universitat Politècnica de Catalunya

School: School of Mathematics and Statistics (FME)

Course: General Relativity

Hours coordination: 6
