Part A. Personal Information

DATE	24/04/2018

Surname(s)	Alonso Pereda	
Forename	Juan José	
Social Security, Passport, ID number	24213057z	
Sex	Male	
Age	54	
Researcher codes	WoS Researcher ID *(*)*	M-4164-2015
	SCOPUS Author ID*(*)*	7403482274
	Open Researcher and Contributor ID (ORCID)	0000-0002-4797-6436

(*) At least one of these is mandatory

A.1. Current position

Post/ Professional Category	Catedrático de Universidad / Professor	
UNESCO Code	2213, 221307, 220208	
Key Words	Statistical Physics, Complex Systems, Spin Glasses, Nanoparticles	
Name of the University/Institution	Universidad de Málaga	
	Department/Centre	Física Aplicada 1
	Full Address	Física Aplicada 1 (Facultad de Ciencias) ,Bulevar Louis Pasteur, 31, 29010 Málaga
	Email Address	jjalonso@uma.es
	Phone Number	34952132039
Start date	09/10/2017	

A.2. Education *(title, institution, date)*

Year	*University*	*Degree*	*Title*
1988	*Universidad de Granada*	*First degree*	*Licenciado en Ciencias Físicas*
1992	*Universidad de Granada*	*PhD*	*Doctor en Ciencias Físicas*

A.3. Indicators of Quality in Scientific Production *(See the instructions)*

-total number of citations : 738
-average number of citations per year during the last five years: 48
-average number of citations per paper (without filter): 17.5

-total number of publications in the first decile (D1): 16
-total number of publications in the first quartile (Q1): 32

h-index: 14
i10-index: 18 (Web of Science)

Part B. Free Summary of CV *(Max. of 3.500 characters, including spaces)*

My research focuses on the study of the cooperative behavior of frustrated disordered systems. In particular, I study by means of numerical simulations the emerging complexity inherent to these systems. In the past, I have also studied the properties of stationary states of systems far from equilibrium, the melting transition of 2D systems of hard-disks, and the behaviour of systems of interacting molecular magnets.

I'm presently working on models for dipolar systems of magnetic nanoparticles packed in disordered spatial arrangements. The main aim of this research is to explore the conditions for the emergence of the Spin-Glass behaviour observed in dense packings of nanoparticles with finite anisotropy.

I have published more than 40 papers in indexed scientific journals, 31 of them in Physical Review (9 Letters among them) on subjects related to Statistical and Computational Physics. I'm referee of Phys. Rev. Letters, Phys. Rev. B and Journal of Physics: Condensed Matter.

Since 1989, I have participated as in more than 20 projects funded by the Spanish Central Government and the European Union. I have been principal investigator of projects BFM2003-03919-C02-02 funded by MCYT of Spain, and INTAS-AIRBUS 99-01547 funded by Airbus and the European Union within the 5th Framework Programme.

I'm a researcher at Instituto Carlos I de Física Teórica y Computacional (Universidad de Granada, Spain) since 1992, and Full Professor at University of Málaga since 2017.

I'm head of the research group FQM-278 of Junta de Andalucía (Spain) since 10/06/2002.

Part C. Relevant accomplishments

C.1. Publications

Alonso-Pereda, Juan Jose; Alles, Bartomeu. 2017
Nature of the spin-glass phase in dense packings of Ising dipoles with random anisotropy axes.
Journal of Physics: Condensed Matter **29**, 355802-1-355802-9.

Alonso-Pereda, Juan Jose. 2015.
Low-temperature spin-glass behavior in a diluted dipolar Ising system.
Physical Review B. **91**, 094406-1-094406-8.

Fernandez-Novoa, Julio; Alonso-Pereda, Juan Jose. 2013.
Numerical results for the Edwards-Anderson spin-glass at low temperature.
Physical Review B. **87**, 134205-1-134205-8.

Fernandez-Novoa, Julio; Alonso-Pereda, Juan Jose. 2012
Pair correlation function for spin glasses.
Physical Review. B, Condensed matter and materials physics. **86**,140402-1-140402-5.

Marco; Roubeau, Olivier; Palacios, Elias; Camón, Agustín; Hooper, Thomas N.; Brechin, Euan K.; Alonso-Pereda, Juan Jose. 2011.
Magnetocaloric Effect in a Ferromagnetic Molecular Dimer.
Angewandte Chemie, International Edition. **50**, 6606-6609.

(Back-cover, Highly Cited Paper (ESI), 187 cites)

C.2. Research Projects and Grants

FIS2017-84256-P
FISICA ESTADISTICA DE LOS SISTEMAS COMPLEJOS: DE LOS PRINCIPIOS BASICOS A LOS ULTIMOS DESARROLLOS EN MATERIA CONDENSADA, NEUROCIENCIA Y BIOLOGÍA DE SISTEMAS.
Ministerio de Economía y Competitividad.
IP: Muñoz-Martínez, Miguel Ángel. (Universidad de Granada)
2018-2020.
157300 EUR

FIS2013-43201
FISICA ESTADISTICA DE LOS SISTEMAS COMPLEJOS: DE LOS PRINCIPIOS BASICOS A LAS FRONTERAS DE LA FISICA DE LA MATERIA, ECOLOGIA Y NEUROCIENCIA.
Ministerio de Economía y Competitividad.
IP Marro-Borau, Joaquín; Muñoz-Martínez, Miguel Ángel. (Universidad de Granada)
2014-2018.
175450 EUR.

FIS2010-18972
MÁS ALLÁ DE LOS MODELOS ESTÁNDAR EN ELECTROCINÉTICA Y REOLOGÍA DE SUSPENSIONES CONCENTRADAS, DE NANOPARTÍCULAS: DESARROLLO DE MODELOS GENERALES DE NO EQUILIBRIO.
MICINN
IP: Carrique- Fernandez, Felix (Universidad de Málaga).
2011-2014.
54450 EUR.

P08-FQM-03779 (Proyecto Excelencia Junta de Andalucía)
DESARROLLO DE NUEVOS MODELOS DE CELDA ELECTROCINÉTICOS Y REOLÓGICOS PARA. SUSPENSIONES CONCENTRADAS DE NANOPARTICULAS EN MEDIOS SALT-FREE CON CORRECCIONES POR TAMAÑO IÓNICO FINITO.
IP: Carrique-Fernandez, Felix (Universidad de Málaga)
2009-2013.
142923 EUR