

CURRICULUM VITAE

Name: Garcia Borge, Maria Jose (M.J.G. Borge)

Professional address: Instituto de Estructura de la Materia, CSIC, Serrano 113bis, 28006-Madrid, Spain, Phone: +34 91 5901614/ Fax: +34 1 585 54 13

Professional Level: "Profesor de Investigación" (Senior Researcher), CSIC

Position: Head of the Department of Nuclear Physics and Statistical Physics

Education:

Bachelor: in Fundamental Physics	Jun 1978 at the Univ. Complutense de Madrid
Diploma	Nov 1979 at the Univ. Complutense de Madrid
PhD	May 1982 at the Univ. Complutense de Madrid

Professional Career

Post-Doc Position: University of Arizona 1982-83

Fellow at ISOLDE: 1984-86

Staff position at Consejo Superior de Investigaciones Científicas, CSIC, since 1986.

Managing research projects since 1986.

Leader of a research group since 1996, year budget about 200.000 €.

Head of the Department since 2003.

Scientific Articles: more than 170 scientific articles in refereed journals.

The number of articles published in the more common scientific journals used in Nuclear Physics are listed below:

Nucl. Phys A	68 published papers
Z. Phys & Eur. Phys. Journal A	21
Phys. Lett. B	15
Phys. Rev. C	15
Phys. Rev. Lett.	13

Besides I have a paper in Nature from 2005 and a review article in Prog. in Nucl and Part Science in 2008 .

H-factor = 30

Conferences: oral presentations in more than 50 International Conferences with 13 invited Conferences and many seminars.

Thesis: Supervisor of 8 Ph.D. Work, three already defended (2000, 2002 and 2003) and two deposited.

Diploma works: 11 already presented.

Other Merits: Chairperson of the ISOLDE Collaboration Committee since Nov 2008.

Spanish expert in the NuPECC (Expert Committee of the European Science Foundation).

Member of the Scientific Committee of Laboratori Nazionali del Sud (Catalia, Italy) 2009-2011

Former member of the Scientific Committee of CRC of Louvain-la-Neuve (Belgium)

Main Scientific Interest: Nuclear Structure studies of exotic nuclei determined by beta decay and complementary nuclear reactions with emphasis in nuclei of astrophysical interest.

Languages: Spanish (mother tongue), English and French.

10 RECENT PUBLICATIONS

1. Title: Large asymmetry in the strongest β -transition for $A = 9$
Author(s): Prezado Y, Bergmann UC, Borge MJG, Cederkäll J, et al.
Journal: PHYSICS LETTERS B 576 (2003) 55-61
2. Title: Deformation of the $N=Z$ nucleus ^{76}Sr using β -decay studies
Author(s): Náchter E., Algora A., Rubio, J.L. Tain, D. Cano-Ott, S. Courtin, Ph. Dessagne, F. Maréchal, Ch Miehé, E. Poirier, M.J.G. Borge, D. Escrig, A. Jungclaus, P. Sarriguren, O. Tengblad W. Gelletly, L.M. Fraile and G. Le Scornet
Journal: PHYSICAL REVIEW LETTERS. 92 (2004) 232501 Pages: 1-4
3. Title: Revised rates for the stellar triple- α process from new measurement of ^{12}C resonances
Author(s): Fynbo HOU, Diget CA, Bergmann UC, Borge MJG, et al.
Journal: NATURE 433 (2005) 136-139
4. Title: Low-lying resonance states in the ^9Be continuum
Author(s): Prezado Y, Borge MJG, Bergmann UC, et al.
Journal: PHYSICS LETTERS B 618 (2005) Pages: 43-50
5. Title: Investigation of the $^9\text{Li} + ^2\text{H} \rightarrow ^8\text{Li} + t$ reaction at REX-ISOLDE
Author(s): Jeppesen H. B., Moro A.M., Nilsson T., Ames F., Van den Bergh P., Bergmann U.C., Bollen G., Borge M.J.G., et al.
Journal: PHYSICS LETTERS B 635 (2006) Pages: 17-22
6. Title: Study of ^{10}Li via the $^9\text{Li}(^2\text{H},p)$ reaction at REX-ISOLDE
Author(s): Jeppesen H. B., Moro A.M., Nilsson T., Ames F., Bergmann U.C., Borge M.J.G., et al.
Journal: PHYSICS LETTERS B 642 (2006) Pages: 449-454
7. Title: α -particle production in the scattering of He-6 by Pb-208 at energies around the Coulomb barrier
Author(s): Escrig D, Sánchez Benítez AM, Moro AM, Álvarez MAG, et al.
Journal: NUCLEAR PHYSICS A 792 (2007) Pages: 2-17
8. Title: Study of the elastic scattering of ^6He on ^{208}Pb at energies around the Coulomb barrier
Author(s): Sánchez Benítez AM, Escrig D, Moro AM, Álvarez MAG, et al.
Journal: NUCLEAR PHYSICS A 803 (2008) Pages: 30-45
9. Title: β -delayed deuteron emission from ^{11}Li decay of the halo
Author(s): Raabe R, Andreyev A, Borge MJG, Buchmann L, et al.
Journal: PHYSICAL REVIEW LETTERS 101 (2008) 212501 Pages: 1-4
10. Title: "Nuclear structure at the proton drip line: Advances with nuclear decay studies"
Author(s): Blank, B. and Borge, M.J.G.
Journal: PROGRESS in PARTICLE and NUCLEAR PHYSICS. 60 (2008) Pages: 403-483.

RESEARCH GRANTS

1. TITLE OF RESEARCH GRANT: Caracterización de núcleos ligeros y medios: su estructura y modos de desintegración. CICYT FPA2002-04181-C04-02

FUNDING AGENCY: Ministerio de Ciencia y Tecnología

FROM: 2002 TILL: 2005

PROJECT LEADER: MJG. Borge

2. TITLE OF RESEARCH GRANT: EUROpean Nuclear Structure Integrated Infrastructure initiative (EURONS). EU Contract nº 506065

FUNDING AGENCY: EU-VI Programa Marco, RI3 (Integrated Infrastructures).

FROM: 2005 TILL: 2008

PROJECT LEADER: O. Tengblad (IEM, CSIC, España) / Coordinador del proyecto: A. Mueller (CNRS, Francia).

3. TITLE OF RESEARCH GRANT: Dinámica, estructura y modos de desintegración de núcleos exóticos ligeros. CICYT FPA2005-02379.

FUNDING AGENCY: Ministerio de Ciencia y Tecnología

FROM: 2005 TILL: 2007

PROJECT LEADER: M.J.G. Borge

4. TITLE OF RESEARCH GRANT: : Dinámica y estructura de núcleos ligeros. Prototipo de doble cristal para el Calorímetro CALIFA del experimento R3B en FAIR. CICYT FPA2007-62170

FUNDING AGENCY: Ministerio de Ciencia e Innovación.

FROM: 2007 TILL: 2009

PROJECT LEADER: O. Tengblad

5. TITLE OF RESEARCH GRANT: Centro Nacional de F. de Partículas, Astropartículas y Nuclear, CPAN.

FUNDING AGENCY: MEC Consolider- Ingenio 2010; CDS2007-00042.

FROM: 2007 TILL: 2012

PROJECT LEADER: Antonio Pich / IP IEM: M.J.G. Borge

6. TITLE OF RESEARCH GRANT: Simulaciones para el desarrollo de un espectrómetro gamma para el experimento R3B de FAIR.

FUNDING AGENCY: Agencia Española de Cooperación Internacional (AECI-MAEC).

FROM: 2008 TILL: 2009

PROJECT LEADER: M.J.G. Borge / Tarek El Bardouni (Fac des Sciences, Tetuan, Marruecos)

7. TITLE OF RESEARCH GRANT: Contribución al Experimento ISOLDE del CERN.

ICTS-2008-01-11

FUNDING AGENCY:

FROM: TILL:

PROJECT LEADER: M.J.G. Borge

8. TITLE OF RESEARCH GRANT: Estudio de la emisión de partículas tras la desintegración beta.

FPA2008-04114-E/IN2P3

FUNDING AGENCY: Ministerio de Ciencia e Innovación

FROM: 2009 TILL: 2010

PROJECT LEADER: M.J.G. Borge (IEM, CSIC, España) / Bertram Blank (CENBG, CNRS, Francia)

9. TITLE OF RESEARCH GRANT: Propiedades de núcleos con halo y avances en el estudio de

Reacciones de interés astrofísico. FPA2008-04712-E/PORTU

FUNDING AGENCY: Ministerio de Ciencia e Innovación

FROM: 2009 TILL: 2010

PROJECT LEADER: M.J.G. Borge (IEM, CSIC, España) / Daniel Galaviz Redondo (CENBG, Lisboa, Portugal)