

# Saúl Beceiro Novo

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Biomedical Physical Sciences  
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## Research interest

- Experimental Nuclear Astrophysics, Nuclear Structure, Instrumentation, FRIB physics  
Science Education: Students learning, Teaching methods, Assessment, Equity and Inclusion in teaching environments.

## Education

- **PhD in Nuclear Physics** Santiago de Compostela, Spain  
*Universidade de Santiago de Compostela* 2008-2011
  - Thesis topic: Coulomb dissociation of  $^{27}\text{P}$
  - Supervisor: Prof. Dolores Cortina Gil
- **M.Sc in Nuclear Physics** Santiago de Compostela, Spain  
*Universidade de Santiago de Compostela* 2006 - 2008
  - Dissertation topic: Implementation of a GEANT4 simulation for the R<sup>3</sup>B setup
  - Supervisor: Prof. Dolores Cortina Gil
- **B.Sc in Physics** Santiago de Compostela, Spain  
*Universidade de Santiago de Compostela* 2001 - 2006
  - Specialist in nuclear and Particle Physics
  - Classification: 1<sup>st</sup> class, Hons.
- **ISEE Professional Development Program** Monterey, California  
*UCSC* 2014, 2015, 2016
  - Mentoring program to better understand Inquiry Based Education.
  - Information of the program: [isee.ucsc.edu/programs/pdp/](http://isee.ucsc.edu/programs/pdp/)
- **Certificate in STEM High School Teaching** Santiago de Compostela, Spain  
*Universidade de Santiago de Compostela* 2008
  - Main topics: Sociology and education; Psychology basis for high school teaching; Curricular design and development; Tutoring and mentoring; Sociolinguistics and education; STEM didactics; Teaching experience in a High School.
- **Certificate in College Teaching** Santiago de Compostela, Spain  
*Universidade de Santiago de Compostela* 2010
  - Main topics: Sociology and college education; Psychology basis for college teaching; Curricular design and development; Vocal health; Effective management of Meetings.

## Awards and Recognition

- **MSU HUB Catalyst Award 2020**
- **MSU Faculty Accessibility Fellowship 2019**
- **MSU Adams Academy Fellow 2019**
- **MSU Hub Fellow 2018**
- **Michigan State University Outstanding Faculty or Staff member Senior Class Council award 2018**
- **HHMI STEM Gateway Fellow 2017**
- **Thomas H. Osgood Excellence in Teaching Award 2016** The Department of Physics and Astronomy of Michigan State University awards one faculty for teaching excellence per year.
- **James D. Hoeschele Endowment Teaching Award. 2016** The College of Natural Science of Michigan State University awards one faculty for teaching excellence in the Center for Integrative Studies in General Science.
- **Postdoctoral Enhancement Teaching Award. 2015** Michigan State University Graduate School awards a postdoc per year for excellence in teaching.
- **MSU PDA travel award. 2014** Travel grant for postdocs in Michigan State University. 6 awarded per year.
- **Premio extraordinario Fin de Carreira Galicia. 2006** Awarded by Xunta de Galicia (State Government) to the best GPA in Physics of the year.

## Teaching

- Physics II for Scientists and Engineers (PHY183) Instructor, Spring 2019 (3c $\approx$  12ECTS) MSU
- Design, Analysis, Tools, and Apprenticeship (DATA) Lab 1. (PHY251) Coordinator, Summer 2017, Fall 2017, Spring 2018 (1c $\approx$  2ECTS) MSU
- Design, Analysis, Tools, and Apprenticeship (DATA) Lab 2. (PHY252) Coordinator, Summer 2016, Summer 2017, Fall 2017, Spring 2018 (1c $\approx$  2ECTS) MSU
- The mystery of Physical World Lab. (ISP209L) Coordinator, Fall 2013, Fall 2014, Spring 2015, Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019 (3c $\approx$  6ECTS) MSU
- The mystery of Physical World. (ISP209) Instructor, Fall 2013, Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019 (3c  $\approx$  6ECTS (European Credit Transfer System)) Michigan State Univ. (MSU)
- Physics II for Scientists and Engineers (PHY184) Instructor, Fall 2014 (3c $\approx$  6ECTS) MSU

- Electromagnetism, Instructor, 2009-2010 , 2010-2011 (6c≈ 6ECTS), USC
- Nuclei and Particle Physics, Instructor, 2009-2010, 2010-2011 (6c≈ 6ECTS), USC
- Atomic and Molecular Physics, Instructor, 2009-2010 (6c≈ 6ECTS), USC
- Quantum Physics, Instructor, 2008-2009 ,2010-2011 (6c≈ 6ECTS) , USC
- Mathematical analysis, Instructor, 2008-2009 (6 credits≈ 6ECTS), Univ. Santiago de Compostela (USC)

## Teaching innovation

- **Curriculum design of multiple introductory physics courses** MSU  
2015-2020
  - Main focus:
  - Inquiry based active learning environment
  - Diversity Equity and Inclusion in the classroom
  - Accessibility of materials and contents
  - Involvement of Graduate Teaching Assistants (GTAs) and Undergraduate Teaching Assistants (ULAs) in the whole process
  - Alignment of learning goals and assessment tasks
  - Professional development for the instructional team

## Curriculum development

- **Curriculum development ISP209: The mystery of the physical world** MSU  
2015-2020
  - New curriculum of introductory Physics for non science majors
  - 275 students each semester
  - 1 professor and 2 ULAs in classroom
  - Creation of new OER textbook for students free access in process
  - Free Homework platform in Loncapa
  - Class participation with iClicker
  - Classroom demonstrations
  - Focus on integrated reasoning and analytical thinking. Students can identify scientific publications from pseudoscience
  - Materials fully accessible
- **Curriculum development ISP209L: The mystery of the physical world lab** MSU  
2015-2018
  - New curriculum of introductory Physics lab for non science majors
  - 27 students each semester

- 1GTA and 1 ULA in classroom
- Creation of new OER textbook for students free access in process
- Free Homework platform in D2L
- Multiple avenues for students to thrive: multiple choice quizzes, presentations, posters, short essays
- Focus on analytical thinking. Students identify as scientists and appreciate the research world
- Materials fully accessible
- Design of new module: physics of life, based on actual life systems present in the classroom: frog vivarium, freshwater aquarium, saltwater aquarium, desertic reptile, tropical reptile, and birds. Students get to apply and research the physical concepts studies in the lecture to actual life systems

- **Curriculum adaptation PHY251 and 252: DATA Lab**

MSU

*2015-2020*

- New curriculum of Design, Analysis, Tools, and Apprenticeship (DATA) Lab, the introductory Physics lab for bio majors
- Original design lead by Dr. Bill Martinez and the MSU PER group
- 20 students each semester
- 1GTA and 1 ULA in classroom
- Free Homework platform in D2L
- Multiple avenues for students to thrive: multiple choice quizzes, presentations, posters, short essays, notebooks
- Focus on analytical thinking. Students identify as scientists and appreciate the research world
- Materials fully accessible

## Professional development

- **Development of a Professional development curriculum for ULAs and GTAs**

MSU

*2015*

- New curriculum based on pedagogy and best teaching practices for the teaching assistant in the Physics department.
- Active learning environment emulating what we want to create in the classroom

## Mentoring

- Co-supervisor of Graduate Student, N. Watwood. Research project in progress
- Co-supervisor of Graduate Student, A. Fritsch. Dissertation defended 07/2014
- Co-supervisor of Graduate Student, A. Shore. Research Project published in Phys. Rev. C
- Supervisor of Graduate Teaching Assistants, over 20 since 2014

- Supervisor of Undergraduate Learning Assistants, over 200 since 2014
- Supervisor of Undergraduate Students in Research Projects, I. LaValley (2012-2014), J. Sammut (2014-2018), A. Yeck (2016- ), G. Wilks, J.Bensley (2018- ).
- Supervisor of Undergraduate Students in Summer Research Projects, R. Becquet and M. Tahar (2012); M. Jajko, G. Astier and E. Resseguie (2013) and J. Schut and B. Mauss (2014).

## University Service

- Coordinator of the ULA program and ULA hiring process in the Physics department (2016-)
- Member of the Committee for the Teaching Evaluation reform in the College of Natural Science of Michigan State University (2020-)
- Member of the Task force for inclusive initiatives of the College of Natural Science of Michigan State University (2018-2019)
- Member of the Dean Search Committee for the College of Natural Science of Michigan State University (2017-2018)
- Chair of the Faculty Advisory Council of the College of Natural Science of Michigan State University (2017-2020)
- Member of the Faculty Advisory Council of the College of Natural Science of Michigan State University (2015-2017)
- Scientific Secretary for the Workshop ‘Active Targets and Time Projection Chambers for Nuclear Physics Experiments’, MSU (Lansing, Michigan) (May 2015)
- Secretary of the Faculty Advisory Council of the Natural Science College of Michigan State University (2014-2015)
- Co-Chair of the Travel Award Committee of MSU Postdoctoral Association (2014- )
- Member of the Nuclear Seminars Committee of the National Superconducting Cyclotron Lab (NSCL) (2014-2015 )
- Guest Editor of the National Superconducting Cyclotron Laboratory newsletter (The Greensheet) (2 months)
- Member of the Organizing Committee of “Programa ConCiencia” and “Premio Fonseca” and social media manager of the programs (2006-2011) (<http://www.usc.es/en/cursos/conciencia/>)
- Member of the Local Organizing Committee for the “17 Euroschool for exotic beams” in USC (Santiago de Compostela, Spain) (September 2010)
- Member of the Board of Trustess of University of Santiago de Compostela in representation of young researchers (4 years)
- Member of the Physics College Committee to adapt the bachelors degree to the European Bologna System at the Univ. of Santiago de Compostela (2 years) .

- Secretary of the Education Council for the adaption of all bachelor degrees to the European Bologna System at the Univ. of Santiago de Compostela (3 years) .
- Secretary of the Research Council of the University of Santiago de Compostela (3 years)
- President of the Young Researchers Asociation PRECARIOS Galicia (1 year)
- Editor in Chief of the newsletter of the Physics College in University of Santiago de Compostela (6 years)
- Member of several Councils of University of Santiago: Quality, International Relations, Economy, Academic Organization, Culture, and Instructors Evaluation Council during 2008-2011

## Employment history

- Assistant Professor in the Department of Physics and Astronomy and Adjunct Research Associate in National Superconducting Cyclotron Laboratory, MSU 2015- , nuclear research project using an Active Target- Time Projection Chamber, Instructor for Physics Courses
- Research Associate in National Superconducting Cyclotron Laboratory, MSU 2012-2015 , development and construction of an Active Target- Time Projection Chamber, Instructor for Physics Department Courses
- Director of Residence Hall Rodriguez Cadarso in Univ. of Santiago de Compostela 2010-2011
- Young Researcher in University of Santiago de Compostela 2006-2011, Coulomb dissociation of  $^{27}\text{P}$
- Summer Student Program in DESY (Hamburg, Germany) 26/07/2006 - 19/09/2006, Testing scintillator detectors
- Summer Student Program in GSI (Darmstadt, Germany) 08/08/2005 - 30/09/2005, High energy neutron detection

## Participation in R&D Grants

- **Project title:** MRI: Development of an Active Target Time Projection Chamber to Study Reactions Induced by Exotic Beams  
**Supporting entity:** National Science Foundation  
**Dates, from:** 2009 **to:** 2012  
**PI:** Wolfgang Mittig
- **Project title:** SBIR Application , entitled “Micromegas Particle Detector with Improved Pixelated Ground Plane” with Triton Systems  
**Supporting entity:** DOE  
**Dates** 2014
- **Project title:** SBIR DE-SC0011287, entitled “Low Z Thin Film Stripper Foils, Targets and X-Ray Windows” with UHV Technologies  
**Supporting entity:** DOE  
**Dates** 2013

- **Project title:** SBIR Application Number 95815S10-II, entitled Micromegas Particle Detector with Agiltron  
**Supporting entity:** DOE  
**Dates** 2011
- **Project title:** In beam g-ray spectroscopy at R3B: CALIFA a next generation calorimeter  
**Supporting entity:** MEC  
**PI:** Ignacio Duran Escribano
- **Project title:** Deseño e prototipo dun novo calorímetro (CALIFA) para a detección de fotóns en voo no experimento R3B de FAIR  
**Supporting entity:** MEC  
**Dates, from:** 01/01/2007 **to:** 31/10/2010  
**PI:** Hector Alvarez Pol
- **Project title:** Grupos de referencia competitiva  
**Supporting entity:** Consellera de Educación e Ordenación Universitaria  
**Dates, from:** 14/12/2006 **to:** 13/12/2008  
**PI:** I. Durán

## Publications

- Y. Ayyad, ..., S. Beceiro-Novo et al. Next-generation experiments with the Active Target Time Projection Chamber (AT-TPC) Nucl. Inst. Meth. A. 954, 161341 (2020)
- Y. Ayyad, ..., S. Beceiro-Novo et al. Direct Observation of Proton Emission in  $^{11}\text{Be}$  Phys. Rev. Lett. 123, 082501
- M. Holl, ..., S. Beceiro-Novo et al. Quasi-free neutron and proton knockout reactions from light nuclei in a wide neutron-to-proton asymmetry range Phys. Lett. B 795, 682 (2019)
- J.S. Randhawa, ..., S. Beceiro-Novo et al. Beam-induced space-charge effects in time projection chambers in low-energy nuclear physics experiments Nucl. Inst. Meth. A. 948, 162830 (2019)
- Y. Ayyad, ..., S. Beceiro-Novo et al. Physics and technology of time projection chambers as active targets Eur. Phys. J. A (2018) 54: 181
- Y. Ayyad, ..., S. Beceiro-Novo et al. Next-generation experiments with the Active Target Time Projection Chamber (AT-TPC): Nuclear Instruments and Methods in Physics Research A (2018)
- G. Ribeiro, ..., S. Beceiro-Novo, et al. Structure of  $^{13}\text{Be}$  studied in proton knockout from  $^{14}\text{B}$  Phys. Rev. C. 98, 3, 024603 (2018)
- E. Pollacco, S. Beceiro-Novo, et al. GET: A generic electronics system for TPCs and nuclear physics instrumentation. Nucl. Inst. Meth. A. 887, 81 (2018)
- F. Wamers, ..., S. Beceiro-Novo, et al. Comparison of electromagnetic and nuclear dissociation of  $^{17}\text{Ne}$ . Phys. Rev. C. 97, 3, 034612 (2018)
- A. Revel, ..., S. Beceiro-Novo, et al. Strong Neutron Pairing in core  $+4n$  Nuclei. Phys. Rev. Lett. 120, 15, 152504 (2018)

- C. Morse,, S. Beceiro-Novo, et al. Enhanced collectivity in  $^{12}\text{Be}$ . Physics Letters B. 780, 227 (2018)
- P. Díaz Fernández,..., S. Beceiro-Novo, et al. Quasifree ( $p, pN$ ) scattering of light neutron-rich nuclei near  $N = 14$ . Phys. Rev. C. 97, 2, 024311 (2018)
- L. Attar,..., S. Beceiro-Novo, et al. Quasifree ( $p, 2p$ ) Reactions on Oxygen Isotopes: Observation of Isospin Independence of the Reduced Single-Particle Strength. Phys. Rev. Lett. 120, 5, 052501 (2018)
- Marco Cortesi,, S. Beceiro-Novo et al. Recent advances with a hybrid micro-pattern gas detector operated in low pressure H<sub>2</sub> and He, for AT-TPC applications EPJ Web Conf. 174,01007 (2018)
- J. Bradt,..., S. Beceiro-Novo, et al. Study of spectroscopic factors at  $N=29$  using isobaric analogue resonances in inverse kinematics. Physics Letters B. 778, 155 (2018)
- Y. Ayyad,..., S. Beceiro-Novo, et al. Novel particle tracking algorithm based on the Random Sample Consensus Model for the Active Target Time Projection Chamber (AT-TPC). Nucl. Inst. Meth. A. 880, 166 (2018)
- J.L. Rodríguez-Sánchez,..., S. Beceiro-Novo, et al. Knockout and fragmentation reactions using a broad range of tin isotopes. Phys. Rev. C. 96, 3, 034303 (2017)
- J. Bradt,..., S. Beceiro-Novo, et al. Commissioning of the Active-Target Time Projection Chamber. Nucl. Inst. Meth. A. 875, 65 (2017)
- D. Bazin,..., S. Beceiro-Novo et al. The Active Target Time Projection Chamber at NSCL EPJ Web Conf. 163,00004 (2017)
- S.Chakraborty,..., S. Beceiro-Novo, et al. Ground-state configuration of neutron-rich  $^{35}\text{Al}$  via Coulomb breakup. Phys. Rev. C. 96, 3, 034301 (2017)
- M. Vandebrouck,..., S. Beceiro-Novo, et al. Effective proton-neutron interaction near the drip line from unbound states in  $^{25,26}\text{F}$ . Phys. Rev. C. 96, 5, 054305 (2017)
- A. Rahaman,..., S. Beceiro-Novo, et al. Coulomb breakup of neutron-rich  $^{29,30}\text{Na}$  isotopes near the island of inversion. Journal of Physics G. 44, 4, 045101 (2017)
- A. Fritsch,..., S. Beceiro-Novo, et al. Search for  $\alpha$ -Cluster Structure in Exotic Nuclei with the Prototype Active-Target Time-Projection Chamber. JPS Conf. Proc. 14, 021105 (2017)
- M. Heine,..., S. Beceiro-Novo, et al. Determination of the neutron-capture rate of  $^{17}\text{C}$  for r-process nucleosynthesis. Phys. Rev. C. 95, 014613 (2017)
- J.J. Kolata,..., S. Beceiro-Novo, et al. Fusion studies with low-intensity radioactive ion beams using an active-target time projection chamber. Nucl. Inst. Meth. A. 830, 82 (2016)
- U. Datta,..., S. Beceiro-Novo, et al. Direct experimental evidence for a multiparticle-hole ground state configuration of deformed  $^{33}\text{Mg}$ . Phys. Rev. C. 94, 034304 (2016)
- R. Thies,..., S. Beceiro-Novo, et al. Systematic investigation of projectile fragmentation using beams of unstable B and C isotopes. Phys. Rev. C. 93, 054601 (2016)
- J. Marganec,... S. Beceiro-Novo, et al. Coulomb dissociation of  $^{27}\text{P}$  at 500 MeV/u. Physics Letters B, 759, 200 (2016)



- J. Marganec, S. Beceiro-Novo, et al. Coulomb and nuclear excitations of narrow resonances in  $^{17}\text{Ne}$ . *Phys. Rev. C* 93, 045811 (2016)
- T. Ahn, D. Bardayan, D. Bazin, S. Beceiro-Novo, et al. The Prototype Active-Target Time-Projection Chamber used with TwinSol radioactive-ion beams. *Nucl. Instr. Meth. B* 376, 321 (2016)
- A. Fritsch, S. Beceiro-Novo, et al. One-dimensionality in atomic nuclei: A candidate for linear-chain  $\alpha$  clustering in  $^{14}\text{C}$ . *Phys. Rev. C* 93, 014321 (2016)
- Marco Cortesi, J. Yurkon, W. Mittig, D. Bazin, S. Beceiro-Novo and A. Stolz. Studies of THGEM-based detector at low-pressure Hydrogen/Deuterium, for AT-TPC applications. *Journal of Instrumentation*. Vol 10, N 9, P09020 (2015)
- S. Beceiro-Novo, T. Ahn, D. Bazin and W. Mittig. Active Targets for the Study of Nuclei Far From Stability. *Prog.Part.Nucl.Phys.* 84 (2015) 124-165
- W. Mittig, S. Beceiro-Novo, et al. Active Target Detectors for Studies with exotic beams: present and next future. *Nucl. Instr. Meth. A* 784, 494 (2015)
- H. Alvarez-Pol,..., S. Beceiro-Novo, et al. Structure of Light Neutron-Rich Nuclei around  $N = 14$  Using Quasi-Free Scattering. *JPS Conf. Proc.* 6, 030038 (2015)
- J. Marganec, S. Beceiro-Novo, et al. Coulomb dissociation Experiment of  $^{27}\text{P}$ . *Acta Phys.Pol.* B46, 473 (2015).
- J. Marganec,..., S. Beceiro-Novo, et al. Studies of continuum states in  $^{16}\text{Ne}$  using three-body correlation techniques. *Eur.Phys.J. A* 51, 9 (2015).
- A. Rahaman,..., S. Beceiro-Novo, et al. Study of Ground State Wave-function of the Neutron-rich  $^{29,30}\text{Na}$  Isotopes through Coulomb Breakup. *EPJ Web of Conferences* 66, 02087 (2014).
- D. Suzuki, ..., S. Beceiro-Novo, et al. Resonant  $\alpha$  scattering of  $^6\text{He}$ : Limits of clustering in  $^{10}\text{Be}$ . *Phys. Rev. C* 87, 054301 (2013)
- E. Uberseder, ..., S. Beceiro-Novo, et al. First Experimental Constraint on the  $\text{Fe-59}(n, \gamma)\text{Fe-60}$  Reaction Cross Section at Astrophysical Energies via the Coulomb Dissociation of  $\text{Fe-60}$ . *Phys. Rev. Lett.* 112, 211101 (2014)
- F. Wamers, ..., S. Beceiro-Novo, et al. First Observation of the Unbound Nucleus  $^{15}\text{Ne}$ . *Phys. Rev. Lett.* 112, 132502 (2014)
- F. Wamers, ..., S. Beceiro-Novo, et al. Exclusive measurements of nuclear breakup reactions of  $^{17}\text{Ne}$ . *EPJ Web of Conferences*. Vol. 66. EDP Sciences, 2014.
- C. Langer., ..., S. Beceiro-Novo, et al. Thermonuclear reaction  $^{30}\text{S}(p, \gamma)^{31}\text{Cl}$  studied via Coulomb breakup of  $^{31}\text{Cl}$ . *Phys. Rev. C* 89, 035806 (2014)
- J. Marganec, ..., S. Beceiro, et al. Study of the  $\text{O-15}(2p, \gamma)\text{Ne-17}$  cross section by coulomb dissociation of  $\text{Ne-17}$  for the rp process of nucleosynthesis. *Acta Physica Polonica B* 45, 2, 229 (2014)
- C. Caesar, ..., S. Beceiro, et al. Beyond the neutron drip line: The unbound oxygen isotopes  $^{25}\text{O}$  and  $^{26}\text{O}$ . *Phys. Rev. C* 88, 034313 (2013)

- S. Beceiro, et al. Coulomb dissociation of  $^{27}\text{P}$ : a reaction of astrophysical interest. Journal of Physics Conference Series 381, 012115 (2012)
- J. Marganec, ..., S. Beceiro, et al. Coulomb breakup of  $^{17}\text{Ne}$  from the view point of nuclear astrophysics. PoS(NIC XII)172
- C. Langer, ..., S. Beceiro-Novo, et al. Coulomb dissociation reactions on proton-rich Ar isotopes. PoS(NIC XI)224
- S. Beceiro, et al. Coulomb dissociation of  $^{27}\text{P}$ : a reaction of astrophysical interest. PoS (NIC XI) 227
- S. Beceiro, et al. Coulomb dissociation of  $^{27}\text{P}$ . AIP Conference proceedings, Volume: 1 Pages: 169-170 (2010)
- G. Fehrenbacher, ..., S. Beceiro, et al. Measurement of the fluence response of the GSI neutron ball in high-energy neutron fields produced by 500AMeV and 800 AMeV deuterons. Radiation Protection Dosimetry, Volume: 126 Pages:497-500 (2007)
- F. Gutermuth, S. Beceiro, et al. Fast-Neutron Production via Break-Up of deuterons and fast-neutron dosimetry. Proceedings of Science, Volume: FNDA2006 Pages:1-6 (2006)
- S. Beceiro, et al. Dose equivalent from 500 MeV neutrons. GSI Scientific Report 2005, Volume: GSI-Scientific Report 2006-1 Page:120 2006

## Conferences and Workshops

- **Title:**  $^{22}\text{Mg}(p)^{25}\text{Al}$  measured with the ATTPC in ReA3.  
**Congress:** DNP conference, APS  
**Place:** Hawaii **Date:** 10/2018
- **Title:** Physics behind the NUSTAR project. (Invited talk)  
**Congress:** Fariness 2017  
**Place:** Sitges (Spain) **Date:** 06/2017
- **Title:** Active Target Time Projection Chamber at NSCL. (Invited talk)  
**Congress:** EXON 2016  
**Place:** Kazan (Russia) **Date:** 09/2016
- **Title:** A candidate for linear chain alpha cluster in  $^{14}\text{C}$   
**Congress:** Direct Reactions with Exotic Beams 2016  
**Place:** Halifax (Canada) **Date:** 07/2016
- **Title:** Di-proton decay studies with the Active Target- Time Projection Chamber (AT-TPC). Approaching the proton dripline.  
**Congress:** 5th International Conference on Proton-Emitting Nuclei  
**Place:** Lanzhou **Date:** 07/2015
- **Title:** Radiation Damage and Annealing in Graphite: Ways to Improve the Lifetime of Targets.  
**Congress:** 2015 Swift Heavy Ions in Matter  
**Place:** Darmstadt **Date:** 05/2015

- **Title:** An Active Target- Time Projection Chamber for Reaccelerated Beams.  
**Congress:** DNP conference, APS  
**Place:** Hawaii **Date:** 10/2014
- **Title:** Active Target- Time Projection Chamber: experimental campaign  
**Congress:** GET collaboration meeting  
**Place:** Bordeaux **Date:** 09/2014
- **Title:** An Active Target- Time Projection Chamber for Reaccelerated Beams.  
**Congress:** Nuclear Physics Town Meeting  
**Place:** Texas **Date:** 08/2014
- **Title:** Study of clustering in  $^{14}\text{C}$   
**Congress:** Nuclear Structure 2014  
**Place:** Vancouver **Date:** 07/2014
- **Title:** Simulation and tracking algorithm of an Active Target Time Projection Chamber  
**Congress:** DNP conference, APS  
**Place:** California **Date:** 10/2012
- **Title:** Coulomb dissociation of  $^{27}\text{P}$   
**Congress:** First Eurogenesis Workshop  
**Place:** Dubrovnik (Croacia) **Date:** 24-26/11/2010
- **Title:** Disociación Coulombiana del  $^{27}\text{P}$   
**Congress:** V Encuentro de Física Nuclear  
**Place:** El Escorial, Madrid (España) **Date:** 27-29/09/2010
- **Title:** Coulomb dissociation of  $^{27}\text{P}$ : a reaction of astrophysical interest  
**Congress:** XVII Euroschool on exotic nuclei  
**Place:** Santiago de Compostela (España) **Date:** 4-10/09/2010
- **Title:** Coulomb dissociation of  $^{27}\text{P}$ : a reaction of astrophysical interest  
**Congress:** 11<sup>th</sup> Symposium on Nuclei in the Cosmos (NIC XI)  
**Place:** Heidelberg (Alemania) **Date:** 19-23/07/2010
- **Title:** Coulomb dissociation of  $^{27}\text{P}$   
**Congress:** International Scientific Meeting on Nuclear Physics  
**Place:** La Rabida (Huelva) **Date:** 04-10/07/2009
- **Title:** Coulomb dissociation of  $^{27}\text{P}$ : a reaction of astrophysical interest  
**Congress:** 11<sup>th</sup> Symposium on Nuclei in the Cosmos (NIC XI)  
**Place:** Heidelberg (Alemania) **Date:** 19-23/07/2010
- **Title:** Implementation of a GEANT4 simulation for the R3B setup: application to the Coulomb Dissociation of  $^{27}\text{P}$   
**Congress:** XV Euroschool on exotic nuclei  
**Place:** Piaski (Polonia) **Date:** 01-06/09/2008
- **Title:** Coulomb dissociation of  $^{27}\text{P}$ : an alternative way to study the  $^{26}\text{Si}(p,\gamma)^{27}\text{P}$  reaction  
**Congress:** XIV Euroschool on exotic nuclei  
**Place:** Houlgate (Francia) **Date:** 26-31/08/2007