Baptiste Mouginot

Assistant Visiting Scientist, University of Wisconsin-Madison, Department of Nuclear Engineering 434 Engineering Research Building 1500 Engineering Dr., Madison, WI 53706 +1 (608)-338-3481/mouginot.baptiste@gmail.com

GitHub: bam241

Education

10/2007 - 12/2010 Ph.D in Sciences, University of Paris XI, France, "Search for Giant Pairing Vi-

bration & Life time measurement using PLUNGER method in ⁷⁴Zn".

2004 - 2007 MASTER DEGREE in Nuclei, Particles, Astro-Particles and Cosmology,

University of Paris XI.

Professional Experiences

10/2015 - present	Assistant Visiting Scientist, Department of Nuclear Engineering, University of Wisconsin-Madison, "Electro-nuclear systems and dynamic fuel cycle calculations": developement of Cyclus fuel cycle tool, analyzed scenarios in support of Fuel Cycle Option campaign, fuel fabrication and cross section prediction models.
08/2012 - 07/2015	Scientist, Subatech, Nantes (FRANCE) , " <i>Electro-nuclear systems and dynamic fuel cycle calculations</i> ": development of CLASS, a dynamic fuel cycle simulations software, fuel fabrication and cross section prediction models, fuel cycle calculations.
08/2011 - 07/2012	Postdoctoral position, Subatech , "Electro-nuclear systems and dynamic fuel cycle calculations".
10/2007 - 12/2010	Research Assitant, Institut de Physique Nucléaire d'Orsay , "Search for Giant Pairing Vibration & Life time measurement using PLUNGER method in 74 Zn: γ and mass spectroscopy, data analysis, C/C++ development.

Teaching

2011/2014 Lecturer in calculus of variations, Ecole des Mines de Nantes (EMN),

 $3\times12h$.

Projects supervision, EMN, $2 \times 20h \& 3 \times 23h$.

2011/2013 Laboratory Instructor of Analog electronics, EMN, $2 \times 18h$.

2013 Master 2 Intership supervision, EMN, 6 months.
 2012 Master I Intership supervision, EMN, 7 weeks.

Skills

Simulation LISE++, SRIM, Geant4, MCNP/MCNPX, MURE, CLASS, Cyclus.

Software Development C/C++, Shell Script, Python.

Version Control svn, git.

Continuous Integration GitHub/GitLab, CircleCI, Docker.

Languages English (fluent), French (native speaker), German (scholar).

Main Scientific Contributions

P.P.H. Wilson, R.W. Carlsen, Winter ANS 2016, Las Vegas, U.S.A (1) oral presentation. - "A neural network approach for burn-up calculation and its applithe dynamic fuel cycle code CLASS", B. Leniau, B. Mouginot, T. Thial., Annals of Nuclear Energy, 81, (2015). - "MOX fuel enrichment prediction in PWR using polynomial B. Mouginot, B. Leniau, T. Thiolière et al., Annals of Nuclear Energy, 81, (2015). - "Core Library Advanced Scenario Simulation, Principle & App. B. Mouginot, B. Leniau, N. Thiolière et al., PHYSOR 2014, Kyot (09/2014): poster. - "CLASS: Core Library for Advanced Scenario Simulation." B. M. N. Thiolière, TCADS 2, Nantes, France: oral presentation. - "A high power ADS concept for the minor actinides transmutation." lière, B. Mouginot, J.B. Clavel, TCADS 2, Nantes, France: oral presentation. - "GEDEPEON Bilan" B. Mouginot, N. Thiolière and J.B. Clavel PEON, Paris, France (décembre 2012): oral presentation. - "Lifetime measurement of 2+1 state in ⁷⁴ Zn by differential plunger in M. Niikura, B. Mouginot et al., Physical Review C, 85, (2012). 2011 - "Search for the Giant Pairing Vibration through (p,t) reactions around 60 MeV", B. Mouginot, E. Khan, N. Retief et al., Physical Review C, 85. 2010 - "Exploring life-time of low-lying states in neutron rich nuclei toware with the plunger technique at GANIL", B. Mouginot, M. Niikura et RORIB'10, Lamoura, France: oral presentation. - "Search of the Giant Pairing Vibration mode in nuclei", B. M. E. Khan, R. Neveling et al., LEA COLLIGA Meeting, Catane, Italie: sentation. - "Giant Pairing Vibrations: experimental overview", B. Mouginot, F. "Giant Pairing V	
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B. Mouginot, B. Leniau, T. Thiolière et al., Annals of Nuclear Energy, 8 - "Core Library Advanced Scenario Simulation, Principle & App. B. Mouginot, B. Leniau, N. Thiolière et al., PHYSOR 2014, Kyot (09/2014): poster. - "CLASS: Core Library for Advanced Scenario Simulation." B. M. N. Thiolière, TCADS 2, Nantes, France: oral presentation. - "A high power ADS concept for the minor actinides transmutation." lière, B. Mouginot, J.B. Clavel, TCADS 2, Nantes, France: oral presection ilère, B. Mouginot, J.B. Clavel, TCADS 2, Nantes, France: oral presection. - "GEDEPEON Bilan" B. Mouginot, N. Thiolière and J.B. Clavel PEON, Paris, France (décembre 2012): oral presentation. - "Lifetime measurement of 2+1 state in ⁷⁴ Zn by differential plunger in M. Niikura, B. Mouginot et al., Physical Review C, 85, (2012). - "Search for the Giant Pairing Vibration through (p,t) reactions around 60 MeV", B. Mouginot, E. Khan, N. Retief et al., Physical Review C, 85. - "Exploring life-time of low-lying states in neutron rich nuclei toware with the plunger technique at GANIL", B. Mouginot, M. Niikura et RORIB'10, Lamoura, France: oral presentation. - "Search of the Giant Pairing Vibration mode in nuclei", B. M. E. Khan, R. Neveling et al., LEA COLLIGA Meeting, Catane, Italie: sentation. - "Giant Pairing Vibrations: experimental overview", B. Mouginot, T. "Giant Pairing Vibrations: experimental overview", B. Mouginot, T. "Giant Pairing Vibrations: experimental overview", B. Mouginot, T. Thiolière et al., Physical Review C, 85, 2012.	- "A neural network approach for burn-up calculation and its application to the dynamic fuel cycle code CLASS", B. Leniau , B. Mouginot , T. Thiolière <i>et</i>
- "Core Library Advanced Scenario Simulation, Principle & App. B. Mouginot, B. Leniau, N. Thiolière et al., PHYSOR 2014, Kyot (09/2014): poster. - "CLASS: Core Library for Advanced Scenario Simulation." B. M. N. Thiolière, TCADS 2, Nantes, France: oral presentation. - "A high power ADS concept for the minor actinides transmutation." lière, B. Mouginot, J.B. Clavel, TCADS 2, Nantes, France: oral presentation. - "GEDEPEON Bilan" B. Mouginot, N. Thiolière and J.B. Clavel PEON, Paris, France (décembre 2012): oral presentation. - "Lifetime measurement of 2+1 state in ⁷⁴ Zn by differential plunger in M. Niikura, B. Mouginot et al., Physical Review C, 85, (2012). 2011 - "Search for the Giant Pairing Vibration through (p,t) reactions aroun 60 MeV", B. Mouginot, E. Khan, N. Retief et al., Physical Review C, 85. 2010 - "Exploring life-time of low-lying states in neutron rich nuclei toware with the plunger technique at GANIL", B. Mouginot, M. Niikura et RORIB'10, Lamoura, France: oral presentation. - "Search of the Giant Pairing Vibration mode in nuclei", B. M. E. Khan, R. Neveling et al., LEA COLLIGA Meeting, Catane, Italie: sentation. - "Giant Pairing Vibrations: experimental overview", B. Mouginot, J. "Giant Pairing Vibrations: experimental overview", B. Mouginot, J.	- "MOX fuel enrichment prediction in PWR using polynomial models",
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 60 MeV", B. Mouginot, E. Khan, N. Retief et al., Physical Review C, 85 2010 - "Exploring life-time of low-lying states in neutron rich nuclei towa with the plunger technique at GANIL", B. Mouginot, M. Niikura et RORIB'10, Lamoura, France : oral presentation. 2008 - "Search of the Giant Pairing Vibration mode in nuclei", B. M. E. Khan, R. Neveling et al., LEA COLLIGA Meeting, Catane, Italie : sentation. - "Giant Pairing Vibrations : experimental overview", B. Mouginot, S. 	- "Lifetime measurement of 2+1 state in ⁷⁴ Zn by differential plunger method", M. Niikura, B. Mouginot <i>et al.</i> , <i>Physical Review C</i> , 85, (2012).
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E. Khan, R. Neveling <i>et al.</i>, <i>LEA COLLIGA Meeting</i>, Catane, Italie : sentation.- "Giant Pairing Vibrations : experimental overview", B. Mouginot,	- "Exploring life-time of low-lying states in neutron rich nuclei towards ⁷⁸ Ni with the plunger technique at GANIL", B. Mouginot, M. Niikura <i>et al.</i> , <i>EU-RORIB'10</i> , Lamoura, France: oral presentation.
v i	- "Search of the Giant Pairing Vibration mode in nuclei", B. Mouginot , E. Khan, R. Neveling <i>et al.</i> , <i>LEA COLLIGA Meeting</i> , Catane, Italie: oral presentation.
models, Workshop, Saclay, France: oral presentation.	- "Giant Pairing Vibrations : experimental overview", B. Mouginot , E. Khan , R. Neveling <i>et al.</i> , <i>Probing pair correlations : experimental tools and associated</i>

Experimental Contributions

06/2009 and 10/2009	Plunger experiment ⁷⁴ Zn, GANIL, France: simulation, set-up, participation,
	online analysis and data analysis.
03/2009 and 03/2007	GPV experiment , iThemba LABS, South Africa : simulation, participation and data analysis.
00/2000	, and the second
09/2008	Beam purification test at LISE line, GANIL, France.
11/2007	TIARA-MUST2-VAMOS-EXOGAM campaign, GANIL, France: participa-
	tion to ${}^{20}\mathrm{O}(d,t)$ experiment and data analysis of the ${}^{36}\mathrm{S}(d,t)/(d,{}^{3}\mathrm{He})$ test ex-
	periment.

Scientific Communications

Peer Reviewed articles

- "Prediction of required MgO volumic fraction in ADS fuel dedicated to minor actinides transmutation", **N. Thiollière, F. Courtin, B. Leniau, B. Mouginot** *et al.*, *Progress in Nuclear Energy*, 85, (2015).
 - "MOX fuel enrichment prediction in PWR using polynomial models", **B. Mouginot, B. Leniau, T. Thiolière** *et al.*, *Annals of Nuclear Energy*, 85, (2015).
 - "A neural network approach for burn-up calculation and its application to the dynamic fuel cycle code CLASS", **B. Leniau**, **B. Mouginot**, **T. Thiolière** *et al.*, *Annals of Nuclear Energy*, 81, (2015).
- "Advanced plutonium management in PWR, complementarity of thorium and uranium", **M. Ernoult** *et al.*, *Progress in Nuclear Energy*, 78, (2014).
- **2013** "Structure of ⁸⁰Ge revealed by the β decay of isomeric states in ⁸⁰Ga : Triaxiality in the vicinity of ⁷⁸Ni", **D. Verney, B. Tastet** *et al.*, *Physical Review C*, 87, (2013).
- "Lifetime measurement of 2+1 state in ⁷⁴Zn by differential plunger method", **M. Niikura**, **B. Mouginot** *et al.*, *Physical Review C*, 85, (2012).
 - "First g(2^+) measurement on neutron-rich 72 Zn, and the high-velocity transient field technique for radioactive heavy-ion beams", **E. Fiori** *et al.*, *Physical Review C*, 85, (2012).
 - "Low-lying neutron *fp*-shell intruder states in ²⁷Ne", **S.M. Brown, W. N. Catford, J.S. Thomas** *et al.*, *Physical Review C*, 85, (2012).
 - "Structure of the N=50 As, Ge, Ga nuclei", **E. Sahin** *et al.*, *Nuclear Physics A*, 893, (2012).
- "Emergence of the N = 16 shell gap in 21 O", **B. Fernandez-Dominguez**, **J.S. Thomas** *et al.*, *Physical Review C*, 84, (2011).
 - "Search for the giant pairing vibration through (p,t) reactions around 50 and 60 MeV", **B. Mouginot, E. Khan, N. Retief** *et al.*, *Physical Review C*, 83, (2011).
- **2009** "Experimental study of ⁸⁴Ga β decay : Evidence for a rapid onset of collectivity in the vicinity of ⁷⁸Ni", **M. Lebois, D. Verney, F. Ibrahim, S. Essabaa** *et al.*, *Physical Review C*, 80, (2009).
 - "Study of the ²⁰O(d,t) Reaction with the TIARA-MUST2-VAMOS-EXOGAM Setup", **A. Ramus** *et al.*, *International Journal of Modern Physics E*, (2009).
 - "Structure of the Neutron Rich Ga and Ge Isotopes Observed at Alto", **D. Verney, M. Lebois, F. Ibrahim, S. Essabaa** *et al.*, *International Journal of Modern Physics E*, (2009).

Conference Proceedings

- "An Integrated Nuclear Archaeology Approach to Reconstructing Fissile Material Production Histories", **M. Göttsche**, **B. Mouginot** *et al.*, *ESDRA* 2017, Düsseldorf, Germany (2017).
- "Mean Cross Section Prediction in PWR-MOX Using Neural Network " **B. Leniau, B. Mouginot, N. Thiolière** *et al.*, *GLOBAL* 2015, Paris, France (2015).
 - "ADS Fuel Loading Model for Minor Actinides Transmutation Scenarios " **N. Thiolière, F. Courtin, B. Mouginot, B. Leniau** *et al.*, *GLOBAL* 2015, Paris, France (2015).
- "Core Library Advanced Scenario Simulation, Principle & Application." **B. Mouginot, B. Leniau, N. Thiolière** *et al.*, *PHYSOR* 2014, Kyoto, Japon (2014).
- 2013 "CLASS: Core Library for Advanced Scenario Simulation." **B. Mouginot, N. Thiolière**, *TCADS* 2, Nantes, France (2013).
 - "A high power ADS concept for the minor actinides transmutation." **N. Thiolière, B. Mouginot, J.B. Clavel**, *TCADS* 2, Nantes, France (2013).
- "Lifetime measurement of 2₁⁺ state in ⁷⁴Zn with differential Plunger technique", M. Niikura,
 B. Mouginot et al.,XLV Zakopane Conference on Nuclear physics "Extremes of the Nuclear Landscape", Zakopane, Pologne (2010).
 - "Lifetime measurement of 2_1^+ state in 74 Zn with differential Plunger technique", **M. Niikura**, **B. Mouginot** *et al.*, 11th Symposium on Nuclei in the Cosmos, Heidelberg, Allemagne (2010).

- "Spectroscopic study of ²⁶Si for application to nova gamma-ray emission", **N. de Séréville** *et al.*, *FINUSTAR3*, Rhodes, Grèce (2010).
- "Spectroscopic study of ²⁶Si for application to nova gamma-ray emission", **N. de Séréville** *et al.*, *NIC XI*, Heidelberg, Allemagne (2010).
- "Probing High-Velocity Transient-Field Strength Using Heavy-ions Traversing Fe and Gd", E. Fiori, G. Georgiev, A. E. Stuchbery, A. Jungclaus, et al., Nuclear Structure and Dynamics, Dubrovnik, Croatia (2009).
 - "Magnetic moment of the 2+ state in the neutron-rich radioactive ⁷²Zn using the High-Velocity Transient-Field technique", **E. Fiori, G. Georgiev, A. E. Stuchbery, A. Jungclaus, et al.**, Nuclear Structure and Dynamics, Dubrovnik, Croatia (2009).
 - "Does transfer confirm knockout results for spectroscopic factor suppression with radioactive beams?", **J.S. Thomas** *et al.*, *Nuclear Structure and Dynamics*, Dubrovnik, Croatia (2009).
- "Structure of the neutron rich Ga and Ge isotopes observed at Alto", **M. Lebois, D. Verney, F. Ibrahim, S. Essabaa** *et al.*, *Japanese French Symposium New paradigms in Nuclear Physics*, Paris, France (2008).
 - "Study of the ²⁰O(d,t) reaction with the TIARA-MUST2-VAMOS-EXOGAM setup", **A. Ramus** *et al.*, *Japanese French Symposium New paradigms in Nuclear Physics*, Paris, France (2008).

Workshops/Conferences

- "Impact of Isotope Fidelity on Fuel Cycle Calculations" **B. Mouginot, P.P.H. Wilson, R.W. Carlsen**, *Winter ANS 2016*, Las Vegas, U.S.A (11/2016): oral presentation.
 - "Transition Analysis with Cyclus" **B. Mouginot** *et al.*, *Dynamic Nuclear Fuel Cycle Workshop*, Paris, France (2016): oral presentation.
- **2015** "CLASS Overview" **B. Mouginot**, *CLASS/CYCLUS Workshop*, Madison, Wisonsin, USA (2015): oral presentation.
 - "French Fleet Application" **B. Mouginot**, *CLASS/CYCLUS Workshop*, Madison, Wisconsin, USA (2015): oral presentation.
- "CLASS, a New Tool for Nuclear Scenarios" **B. Mouginot, J.B. Clavel and N. Thiolière**, *International Conference on Nuclear Power Engineering*, Madrid, Spain (2012): poster.
- "Exploring life-time of low-lying states in neutron rich nuclei towards ⁷⁸Ni with the plunger technique at GANIL", **B. Mouginot, M. Niikura** *et al.*, *EURORIB'10*, Lamoura, France (2010) : oral presentation.
- "Giant pairing vibrations: experimental overview", **B. Mouginot, E. Khan, R. Neveling** *et al.*, *Probing pair correlations Experimental tools and associated models, Workshop*, Saclay, France (2008): oral presentation.
 - "Search of the Giant Pairing Vibration mode in nuclei", **B. Mouginot, E. Khan, R. Neveling** *et al.*, *LEA COLLIGA Meeting*, Catane, Italy (2008): oral presentation.

References

• Faiçal Azaiez : Scientific Adviser (2007/2010)

Senior researcher, CNRS

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Email: azaiez@ipno.in2p3.fr

• Serge Franchoo: Scientific Adviser (2007/2010)

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• Nicolas Thiollière: Scientific Adviser(2011/2015) - Collaborator(2015-2017)

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• Adrien Bidaud: Collaborator (2012/2015)

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• Joachim Miss: Collaborator (2012/2015)

Responsable de Mission Programmes et Stratégies Scientifiques, IRSN

IRSN Institut de Radioprotection et de Sûreté Nucléaire

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• Sylvain David : Collaborator (2012/2015)

Senior researcher, CNRS

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• Xavier Doligez : Collaborator (2012/2015)

Researcher, Institut de Physique Nucléaire d'Orsay

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• Paul P.H. Wilson: Scientific Adviser(2015/2017)

Professor, Department of Engineering Physics

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