

Curriculum Vita of Hadil Abualrob

Date of birth: July 24th, 1985

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Current position since Jan. 2016: Assistant professor in physics, Physics Department, An-Najah University, Nablus, Palestine.



Education:

- 30 September 2015: PhD in physics, Univ. of Paris-Sud, “Study and construction of wigglers at SOLEIL: W164 and Robinson wiggler”, Synchrotron SOLEIL, Gif sur Yvette, France.
- 2011: Master 2 Optics Material and plasma, Institut d’Optique and University of Paris-Sud, Orsay, France.
- 2010: Master 1 fundamental physics (option: Nuclear Engineering, INSTN, CEA Saclays), University of Paris Sud, Orsay, France.
- 2007: Bachelor of Science in physics, An-Najah Univ., Nablus, Palestine.

Career:

- September 2021-August 2022: Sabbatical, accelerator pole, IJCLab, Paris Saclay University
- January 2016-present: Full time assistant professor in physics, physics department, An-Najah National University, Nablus, Palestine.
- 2007-2008: Teaching assistant in the physics department, An-Najah National University, Nablus, Palestine.

Academic awards:

- 2008-2011: French government scholarship.
- 2011-2014: Synchrotron SOLEIL scholarship.

Research training and internship:

- March-July 2011: Optimization of synchrotron radiation emitted by the undulator HU80 at SOLEIL, Synchrotron SOLEIL, Gif-sur-Yvette and CLIO-LCP (Laboratoire de Chimie Physique), Orsay, France.
- July-August 2011: CERN summer student, CERN, Geneva, Switzerland.
- April-July 2010: Nonlinear optical properties of silicon-on-insulator nanowires, Institut d’Optique Graduate School, Palaiseau, France.

Projects and external funding:

- 2018-2024: Erasmus+ fund in collaboration with the IJCLab (total budget of 500 K€).
- 2020-present: Al-Maqdisi (PHC) project in collaboration with Synchrotron SOLEIL-French Consulate in Jerusalem (total budget: 20 K)
- 2017-2019: Al-Maqdisi project (PHC) in collaboration with Synchrotron SOLEIL-French Consulate in Jerusalem (total budget: 20 K €)
- 2017-2018: Scientific research fund-An-Najah University “Water pollutant identification using IR Microspectroscopy” (total budget: 15 K\$).

Professional activities and leadership:

- April 2021: chair of the young researcher conference:
<https://wishepp2021.ijclab.in2p3.fr/special-event-for-young-students/>
- February 2020: First workshop in computational Physics and Mathematics.
- January 2020: Visit coordination to SESAME for researchers from An-Najah University.
- Mar. 31st–Ap. 1st 2019: organization of the Second International Workshop on Synchrotron Radiation and Applications- <https://www.najah.edu/en/events/sesame2019/>.
- April 2017: Co-organization of the first introductory workshop about SESAME.
- Since November 2016: Co-organizer of the Winter School in High Energy Physics in Palestine (WISHEPP). WISHEPP V: <http://wishepp2021.ijclab.in2p3.fr/>
- May 2016: Visit organization for students-phys. Dep. form An-Najah Univ. to SESAME.

Management and responsibilities:

- September 2021-present: scientific coordinator of An-Najah team of PERLE project.
- Since Sep. 2018: Member of the National Committee for SESAME by ministerial decision.
- Sep. 2019-August 2020: Head of the Physics Department, An-Najah University, Nablus, Palestine.

Mentoring:

- Co-supervision of 2 PhD students, supervision of different undergraduate students
- December 2021-present: Monter within the Montorat program, women in science association, University Paris Saclay

Computer skills:

- Operating systems: Windows, Linux, Mac OS
- Known tools: Igor Pro, RADIA, SRW, C++

Languages:

English, French, Arabic.

Society:

- July 2013: member of the *Société Française de la Physique*
- June-July: 2000: ambassador of peace, seeds of peace international camp, Washington DC, USA.

National and international conferences

- January 2022: IUPAP regional e-conference on physics organized by the Pakistan Physical Society.
- December 2019: Rencontre Franco-Palestinennes “French days organized by the French consulate”, Paris, France
- November 2019: SESAME 17th users meeting, Allan, Jordan.
- December 2018: SESAME 16th users meeting, Allan, Jordan.
- July 2017: The physics at An-Najah National University. Assemblée Générale de la Société Française de Physique, Orsay, France.
- July 2016: Femtosecond light pulses production using the wiggler W164. PCMTMP II, Jenin, Palestine, July 2016.
- November 2014: Wiggler study at SOLEIL towards higher beam brightness, SESAME 12th users meeting, Amman, Jordan.
- November 2013: Robinson wiggler and Robinson effect observation at SOLEIL, Rencontre Jeunes Physiciens, organized by SFP, Paris.
- October 2013: Study the effects of Robinson wiggler at SOLEIL towards brightness increase, Journées des accélérateurs organized by the SFP (Société Française de la Physique), Roscoff, France.
- July 2012: A Robinson wiggler to reduce the emittance at SOLEIL synchrotron light source», PCMTMP III (Palestinian Conference on Modern Trends in Mathematics and Physics), Hebron, Palestine.
- May 2012: SOLEIL emittance reduction using a Robinson wiggler, IPAC 12, New Orleans, USA.
- August 2010: nonlinear optical properties of silicon on insulator nanowires», PCMTMP II, Nablus, Palestine.

Scientific outcome

- H. Abualrob et al. ” Experimental Demonstration of Robinson Effect on a Synchrotron Light Source for Horizontal Emittance Reduction” submitted to PRAB on March 20, 2021.
- O. Marcouille, H. Abualrob, P. Brunelle, L. Chapuis, M.-E. Couprie, T. Elajjouri, M. Labat, J.-L. Marlats, F. Marteau, A. Mary, A. Nadji, K. Tavakoli, M.-A. Tordeux, M. Valleau . W164: a wiggler dedicated to the PUMA beamline and the femtoslicing project at SOLEIL. International Particle Accelerator Conference, Dresden, Germany, 2014.
- M. Labat, M.-A. Tordeux, P. Hollander, P. Prigent, M.-E. Couprie, A. Nadji, D. Pédeau, J.-P. Ricaud, F. Dohou, L. Cassinari, O. Marcouillé, H. Abualrob, K. Tavakoli, D. Zerbib, J.-L. Marlats, A. Lestrade, M. Ros, L. Nadolski, J.-F. Lamarre, P. Betinelli, A. Buteau, N. Béchu, C. Herbeaux, P. Roy, J. Luning, T. Moreno, C. Laulhe, S. Ravy, M. Silly, F. Sirotti, P. Morin. Commissioning progress of the femtoslicing at SOLEIL. International Particle Accelerator Conference, Dresden, Germany, 2014.
- H. Abualrob, P. Brunelle, M.E. Couprie, O. Marcouillé, A. Nadji, L. Nadolski, R. Nagaoka. SOLEIL emittance reduction using a Robinson wiggler, proceedings International Particle Accelerator Conference, New Orleans, USA, may 2012.
- M.E. Couprie, H. Abualrob, N. Béchu, C. Benabderrahmane, P. Berteaud, F. Briquez, P. Brunelle, L. Chapuis, T. Elajjouri, C. Herbeaux, F. Marteau, O. Marcouillé, J. L. Marlats, A. Mary, A. Lestrade, A. Nadji, L. Nadolski, R. Nagaoka, K. Tavakoli, M. Valléau, J. Vétérin, Synchrotron SOLEIL, GIF-sur-YVETTE, O. Chubar, C. Kitegi, Brookhaven National Laboratory, Upton, USA, J. M. Filhol, Fusion for Energy, Barcelona, Spain. Insertion devices activities at SOLEIL. Future Light Source Workshop, Virginia, USA, March 2012.
- J.-M. Ortega, J.-P. Berthet, F. Glotin, G. Perilhous, R. Prazeres, CLIO/LCP, F. Marteau, H. Abualrob, T. El Ajjouri, Ph. Berteaud, L. Chapuis, J. Veteran, M.-E. Couprie, Synchrotron SOLEIL, GIF-sur-YVETTE. Increasing the spectral range of the CLIO infrared user facility by reducing diffraction losses, International Particle Accelerator Conference, New Orleans, USA, may 2012.

References:

- Prof. Abdel Naser Zaid: anzaid@najah.edu (President of An-Najah National University)
- Dr. Marie Emmanuelle Couprie: marie-emmanuelle.couprie@synchrotron-soleil.fr (head of magnetic insertion group, Synchrotron SOLEIL)
- Prof. Achille Stocchi: stocchi@lal.in2p3.fr (Director of the IJCLab, Paris Saclay University)
- Dr. Walid Kaabi: walid.kaabi@ijclab.in2p3.fr (Deputy director of the accelerator pole, IJCLab, Paris Saclay University)
- Dr. Olivier Marcouille: olivier.marcouille@synchrotron-soleil.fr (Magnetism and Insertion Group, Synchrotron SOLEIL)
- Prof. Annick Weiner: annick.weiner@gmail.com (AUF, bureau de Paris)