Maciej Lewicki

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Education

2015 – (2019)	**PhD** at Institute of Theoretical Physics, University of Wroclaw.
2010 – 2015	**MSc** Computational Physics at University of Wroclaw.
2010	Graduated Grammar School No 3 in Wroclaw.

Experience

2018 – (2020)	Project leader of National Science Center grant **Preludium**.
2017	Co-funder at **Populi Sp. z o. o.**
od 2017	Asistant Lecturer at **Institute of Theoretical Physics** UWr.
2014 – 2016	Short-term internships at **CERN** (total of 6 months).
od 2014	Member of **NA61/SHINE** Collaboration.
2014	Summer student at **Helmholtz Zentrum** Dresden-Rossendorf (2 months).
2013	Internship at **Rhino Sp. z o. o.** (3 months).

Awards

Selected Scholarships

- Short-term DAAD scholarship (IKF, Goethe University, 2019).
- Scholarship from the Minister of Science and Higher Education for Outstanding Scientific Achievements (2018).
- Rektor UWr Scientific Prize (2018).
- Max Born Scholarship from President of Wroclaw (2018).
- Scholarship from the Minister of Science and Higher Education for Outstanding Scientific Achievements (2014).

National competitions

Science popularization software "FizBit"	- 1st prize (2015). - 2nd prize (2014).
Best student in Sciences "Student's Nobel"	- National, 3rd prize (2015). - Regional, 1st prize (2014).

Prizes for best presentations

- Open Readings (Vilnus, 2017).
- Winter Kindergarten of Theoretical Physics (Lądek-Zdrój, 2015).

Miscellaneous

- Students' Government Representative (graduate: 2012-2014) and (doctorate: 2016-2019)
- Academic Sport Association – Swimming Team (2010-2014)
- Cambridge Certificate in Advanced English (2010)

Hobbies

Data Visualization, Photography, Ornithology, Hiking, Basketball

Selected Publications

1. M. P. Lewicki, "*Recent measurements of identified hadron spectra and multiplicities in Ar+Sc and Be+Be collisions at SPS energies*"
   PoS CORFU2018 (2019) 166
2. M. P. Lewicki, "*On Strangeness in NA61/SHINE*"
   Acta Phys. Polon. Supp. 11 (2018) 601
3. M. P. Lewicki, "*Identified hadron production in Ar+Sc collisions at SPS energies*"
   PoS CPOD2017 (2018) 057
4. A. Aduszkiewicz et al. [NA61/SHINE Collaboration],
   "*Measurements of $\pi^{\pm}$, $K^{\pm}$, p and $\bar{p}$ spectra in proton-proton interactions at 20, 31, 40, 80 and 158 GeV/c with the NA61/SHINE spectrometer at the CERN SPS*,"
   Eur. Phys. J. C 77 (2017) no.10, 671
5. M. P. Lewicki "*Pion spectra in Ar+Sc interactions at SPS energies*"
   Acta Phys.Polon.Supp. 10 (2017) 645

Selected conference talks

1. Critical Point and Onset of Deconfinement, Corfu, [24-28.09.2018]
   "Recent measurements of identified hadron spectra and multiplicities in Ar+Sc and Be+Be collisions at SPS energies"
2. Exicted QCD, Kopaonik, RS – [11.03.-15.03.2018]. *on invitation*
   "On strangeness in NA61/SHINE"
3. Polish Workshop on Heavy Ion Collisions, Wrocław, PL – [05.01.-07.01.2018]
   "On strangeness in NA61/SHINE"
4. Zimányi - COST Action Winter School, Budapest, HU – [04.12.-08.12.2017]
   "New results on strangeness production from the NA61/SHINE experiment"
5. Critical Point and Onset of Deconfinement, Stony Brook, USA – [07-11.08.2017]
   "Identified hadron production in Ar+Sc collisions at SPS energies"
6. Open Reading, Vilnus, LT - [14.03.-17.03.2017] *Best lecture award*
   "Strong Interactions Investigation Methods at NA61/SHINE"
7. Polish Workshop on Heavy Ion Collisions, Kielce, PL – [04.11.-06.11.2016]
   "Pion spectra and mean multiplicities in Ar+Sc collisions at SPS energies"
8. Critical Point and Onset of Deconfinement, Wrocław, PL – [30.05.-04.06.2016]
   "Pion spectra in Ar+Sc interactions at SPS energies"

Conference Organization

1. Polish Workshop on Heavy Ion Collisions, Wrocław, PL [05.01.-07.01.2018]
2. Falling Walls Lab 2017 [02.07.2017]
3. Winter School of Theoretical Physics 2017 [26.02-04.03.2017]
4. Falling Walls Lab 2016 [10.10.2016]
5. Critical Point and Onset of Deconfinement 2016 [30.05.-04.06.2016]

Research Projects

1. NA61/SHINE Collaboration `[cern.ch/shine]`
   Preludium grant, project leader: (2017/27/N/ST2/00778)
   Harmonia grant: (2012/04/M/ST2/00816, 2015/18/M/ST2/00125)
   Grant for Young Scientists 2017
   - Identification and measurement of kinematic spectra of hadrons: π^-, π^+, k^-, k^+, p, $\bar{p}$ i d produced in Ar+Sc collisions at beam momentum range of: 13*A*-150*A* GeV/*c*.
   - Measurements π^- kinematic spectra produced in Ar+Sc collisions at beam momentum range of: 13*A*-150*A* GeV/*c*.
   - Time Projection Chambers readout delay calibration.
2. Polonez grant, (DEC-2015/19/P/ST2/03333)
   "Dissipative properties of strongly interacting matter formed in heavy-ion collisions".
   `[ift.uni.wroc.pl/grants/huovinen]`
   - Calculation of phase space in decays of heavy resonances.
   - Hydrodynamical simulation of collisions of intermediate size ions.
3. Dosematic `[cern.ch/malewick/dosematic]`
   - Software for statistical analyses of dosimetric data.
     Cooperation with the Centre of Radiobiology and Biological Dosimetry in Warsaw.

Internships and Scientific Visits

1. Goethe University, Frankfurt a. M. – Cooperation with prof. M. Gaździcki:
   - `[04.02.-08.03.2019]` Statistical methods in the analysis of Ar+Sc collisions.
   - `[18.07.-21.07.2017]` Experimental methods of particle identification.
   - `[13.03.-20.03.2016]` Data analysis in NA61/SHINE.
2. CERN, NA61/SHINE:
   - `[21.11.-25.12.2016]` – "Kaon identification in NA61/SHINE" workshop.
   - `[23.11.-04.12.2015]` – "Ar+Sc Analysis" workshop.
   - `[01.09.-31.10.2015]` – Internship funded by UWr Career Office.
   - `[04.03.-30.03.2015]` – Developement of Monte Carlo software.
   - `[28.10.-18.12.2014]` – TPC pulser data analysis.
3. Helmholtz-Zentrum Dresden-Rossendorf – Summer Student Program. `[14.07-17.09.2014]`
   Simulation of positron emission through nuclear activation of ^{58}Fe with a low-energy beam.
4. Rhino sp. z o. o., Wrocław. `[21.04.-05.08.2013]`
   Time-series prediction with neural networks.
5. Physics of Nanostructures Division, UWr. `[02.-06.2011]`
   Measurements of structures created with oxygen deposited on Molybdenum and Tungsten (211) with STM.