

RG LIST OF SUPERVISED THESIS 2008 - 2020

DIPLOMA THESIS

1.
"Depth-resolved PIXE analysis with a polycapillary X-ray lens";
19.12.2008, A 411, Reichhart, Lea.
2.
"Characterisation of a new GEM detector with PIXE at VERA";
20.03.2009, A 411, Müllner, Philip.
3.
"Exploring AMS for the measurement of the (n, gamma) cross-section on ^{209}Bi at energies relevant for nuclear astrophysics";
25.06.2009, A 411, Kueß, Peter.
4.
Preparation of a ^{55}Fe -AMS standard and the precise measurement of the neutron capture cross-section of $^{54}\text{Fe}(n, \text{gamma})$ ";
04.11.2009, A 411, Buczak, Kathrin.
5.
"Fast neutron induced reactions and new data for ^{238}U and ^{232}Th measured with AMS";
20.12.2011, A 411, Eisenhut, Karin.
6.
"Ribbon Beam Applications on High Current Ion Implantation Systems Process Control and Quality Ensurance";
17.12.2012, A 411, Jelinek, Moriz.
7.
"Production of a Radiocarbon Reference Material for Accelerator Mass Spectrometry by Neutron Activation";
01.02.2013, A 411, Wieninger, Thomas.
8.
"Construction of a Multi-Anode Ionization Chamber for AMS at VERA"
25.02.2013, A 411, Buchriegler, Josef.
9.
"AMS detection of ^{10}Be with a SiN-foil stack";
12.03.2013, A 411, Schmidt, Edith.
10.
"Accelerator Mass Spectrometry of Cesium Isotopes";
21.07.2015, UF Physik, Kasberger, Magdalena.
11.
"Direkte Bestimmung von $^{10}\text{Be}/^9\text{Be}$ Verhältnissen mittels Beschleunigermassenspektrometrie";
18.12.2015, UF Physik, Ploner, Marco, Co-Supervisor J. Lachner.
12.
"First photodetachment measurements of slow negative molecules for AMS";
04.07.2017, UF Physik, Kalb, Andreas, Co-Supervisor J. Lachner.

R G LIST OF SUPERVISED THESIS 2008 - 2020 CONT.

D I P L O M A T H E S I S CONT.

13.
"Simulation und Optimierung des Laser-Ionen-Aufbaus an VERA";
20.03.2018, UF Physik, Wasserburger, Paul, Co-Supervisor P. Steier.
14.
"Experimental Ionisation Yields of Fluoride Anions in a Middleton-Type Sputter Ion Source";
10.07.2018, UF Physik, Zhang, Xiaohe, Co-Supervisor M. Martschini.
15.
"PIXE zur Entwicklung der Extraktionschemie für AMS-Proben"
21.04.2020, UF Physik, Eisenhut Christoph, Co-Supervisor P. Steier.
16.
"Analysis of Isotopic Uranium and Plutonium Ratios in the Ocean by Accelerator Mass Spectrometry";
11.08.2020, UF Physik Wiederin, Andreas , Co-Supervisor K. Hain.

M A S T E R T H E S I S

1.
"A neutral particle detector for photodetachment studies";
2014, A 066 876, Lahner, Johannes.
2.
"Laser Photodetachment in a Gas-Filled RF-Quadrupole";
16.07.2015, A 033 876, Pitters, Johanna.
3.
"Development and Characterization of the Ion Laser InterAction Setup (ILIAS)";
23.06.2016 A066 876, Moreau, Tobias, Co-Supervisor M. Martschini.
4.
"AMS measurements of ^{36}Cl using isobar suppression via laser photodetachment";
28.08.2018, A066 876, Marek, Christoph, Co-Supervisor J. Lachner.
5.
"Exploration study for trace detection of long-lived fission products at VERA",
27.02.2020, A066 876, Marchhart, Oscar, Co-Supervisor M. Martschini.
6.
"Developments towards the determination of ^{135}Cs and ^{137}Cs in environmental samples by AMS"
19.06.2020, A066 876, Wieser, Alexander, Co-Supervisor J. Lachner.
7.
"Optimization of Special Magnets for the MedAustron Accelerator",
07.07.2020, A066 876, Hinterschuster, Florian.
8.
"Development of a commissioning tool for the independent dose calculation software IDEAL for the patient specific quality assurance at EBG MedAustron",
ongoing, A066 876, Scheuchenpflug, Lukas.

R G LIST OF SUPERVISED THESIS 2008 - 2020 CONT.

M A S T E R T H E S I S CONT.

9.

"Ionen ausbeute von Aktiniden in Umweltproben: Welche negativen Moleküle entstehen effizient im Sputterprozess?"

ongoing, A066 876, Kern, Michael, Co-Supervisor P. Steier, K. Hain.

10.

"Multiphysics simulation of negative ions in a gas-filled RF quadrupole"

ongoing, A066 876, Gaggl, Philipp.

D O C T O R A L T H E S I S

1.

"Neutron capture measurements on ^{62}Ni , ^{63}Ni and ^{197}Au and their relevance for stellar nucleosynthesis";

27.03.2012, A 091 411, Lederer, Claudia, Co-Supervisor A. Wallner.

Victor Hess-Preis der ÖPG, Adolf Messer Prize, FWF Schrödinger Fellowship,
STFC Ernest Rutherford Fellowship, ERC Starting Grant;
current adress University of Edinburgh

2.

"Development of methods for isobar suppressions in AMS and measurements of ^{36}Cl with the VERA 3 MV tandem accelerator";

12.06.2012, A 091 411, Martschini, Martin.

3.

"Supernova-Produced Radionuclides in Deep-Sea Sediments Measured with AMS";

27.11.2014, A 791 411, Feige, Jenny, Co-Supervisor A. Wallner.

Promotionspreis der Fachgruppe Nuklearchemie der Gesellschaft Deutscher Chemiker e.V.;
klarText Preis für Wissenschaftskommunikation, Klaus Tschira Stiftung;
current adress TU Berlin.

NO DOCTORAL SUPERVISION DURING PERIOD AS DEAN 2014 – 2018

4.

"Methods for Accelerator Mass Spectrometry of ^{99}Tc ";

ongoing, Pitters, Johanna, Co-Supervisor K. Hain.

5.

"Ion-Laser-Interaction Mass Spectrometry of Cesium isotopes";

starting Oct. 2020, Wieser, Alexander.

6.

"Ion-Laser-Interaction Mass Spectrometry of ^{90}Sr for industrial scale operation";

starting Oct. 2020, Marchhart, Oscar.