

Georg SCHRAMM

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Personal Details

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| date of birth | 08 April 1987 |
| place of birth | Görlitz, Germany |
| nationality | German |

Education

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| Jan 2015 | PhD in medical imaging , TU Dresden, Germany Thesis: "Evaluation and Improvement of MR-based attenuation correction in PET/MRI." final mark: summa cum laude, link (German National Library) |
| Apr 2011 | Master in (nuclear and particle) physics , TU Dresden, Germany Thesis: "Simulation and analysis of neutron capture and photon scattering experiments." |

Experiences

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| since Aug 2022 | Visiting Instructor , Stanford University School of Medicine, Department of Radiology |
| Apr 2015 - Jul 2022 | Postdoctoral researcher , KU Leuven, Belgium, Department of Imaging and Pathology, Division of Nuclear Medicine As a PostDoc in the lab of Prof. Johan Nuyts, I am investigating joint advanced method for iterative PET image reconstruction and the application of deep learning in PET reconstruction and image analysis. Moreover, I am heavily interested and involved in the translation of our research into clinical routine. |
| Jan 2015 - Mar 2015 | Scientist , Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Institute for Radiopharmaceutical Cancer Research |
| May 2011 - Jan 2015 | PhD student , HZDR, Institute for Radiopharmaceutical Cancer Research As a PhD student in the lab of Prof. Jörg van den Hoff, I was evaluating and improving whole-body MR-based attenuation correction using one of the first combined PET/MR systems world-wide. |
| 2021 | Member of the local organizing committee for the 16th Virtual International Meeting on Fully 3D Image Reconstruction in Radiology and Nuclear Medicine As a member of the organizing committee, I was responsible for organizing the virtual poster session on gather.town as well as editing the conference proceedings submitted to arxiv |
| since Apr 2019 | Active member in the KU Leuven PostDoc Society I am involved in organizing career and networking events for PostDocs and in the preparation of a PostDoc charta for KU Leuven. |
| Apr 2013 - Feb 2015 | member of the management board of Werkstatt BigBand Dresden e.V. In our student big band, I was organizing concerts, rehearsal weekends and finances. |
| Sep 2009 - Mar 2010 | Semester abroad , University of Sheffield, UK During my Erasmus semester in Sheffield, I was studying astronomy and applied mathematics |
| Aug 2008 - Jul 2009 | Student research assistant , HZDR Institute of Radiation Physics As an assistant, I was analysing neutron TOF and transmission data and typesetting a lecture manuscript in latex. |

Languages

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| German | native |
| English | fluent |
| Dutch | basic |

Teaching

since 2017 Techniques and technologies in Nuclear Medicine (assistant for Prof. J. Nuyts)
since 2017 Medical Imaging (assistant for Prof. P. Suetens and Prof. F. Maes)

Awards

Nov 2019 **Best Poster Award 2nd place**
Synergistic Reconstruction Symposium, Chester

Mar 2015 **PhD Award**
Yearly award for the best PhD thesis at HZDR

Mar 2014 **Award for notable achievements in nuclear medicine imaging**
German Society of Nuclear Medicine

Mar 2014 **Travel grant for RSNA 2014 for the best oral presentation of a young investigator.**
Annual meeting of the German Society of Nuclear Medicine

May 2012 **Award for the best oral presentation of a young investigator.**
International conference on PET/MRI and SPECT/MRI. La Biodola, Italy

Jan 2012 **Ehrenfried Walter von Tschirnhaus Urkunde**
Yearly given to the five best graduates of the faculty of science at TU Dresden

Invited Talks

Nov 2019 **State of the art of AI for medical image reconstruction and corrections**
IEEE MIC 2019 workshop: Emergence and perspectives of artificial intelligence (AI) methods in radiation-based imaging sciences, Manchester

Oct 2017 **MR-based attenuation correction for the body**
Annual congress of the European Association for Nuclear Medicine, Vienna

Sep 2017 **Positron Emission Tomography - an introduction and overview about current developments**
International workshop on positron studies on defects 2017, Dresden

Research Interests

PET PET image reconstruction
quantitative PET imaging
PET image analysis
hybrid PET/MR imaging
Deep learning in medical image reconstruction and analysis

Reviewer for J Nucl Med, Eur J Nucl Med, IEEE TMI, Eur J Nucl Med Phys, Physica Medica
Associate Editor for Eur J Nucl Med Phys

Skills

programming Python, keras, tensorflow, pytorch, IDL, matlab, R, C, C++, bash, git, cmake, openmp, cuda, the dicom standard, [github link](#)

mathematics numerics, inverse problems and convex optimization in medical imaging

clinical PET imaging more than 8 years of experience in clinical operation of a PET/MRI scanner

Leuven, August 12, 2022

Publication records

Google scholar profile [link](#)

ORCID ID [link](#)

First author peer-reviewed journal articles

G Schramm

Reconstruction-free Positron Emission Imaging Fact or Fiction?
Frontiers in Nuclear Medicine (2022)

G Schramm, M Holler

Fast and memory-efficient reconstruction of sparse Poisson data in listmode with non-smooth priors with application to time-of-flight PET
Physics in Medicine & Biology (2022)

G Schramm, D Rigie, T Vahle, A Rezaei, K Van Laere, T Shepherd, J Nuyts, F Boada

Approximating anatomically-guided PET reconstruction in image space using a convolutional neural network
Neuroimage 224:117399 (2021)

G Schramm, M Koole, S Willekens, A Rezaei, D Van Weehaeghe, G Delso, R Peeters, N Mertens, J Nuyts, K Van Laere

Regional accuracy of ZTE-based attenuation correction in static [18F] FDG and dynamic [18F] PE2I brain PET/MR
Frontiers in Physics 7:211 (2019)

G Schramm, C Ladefoged

Metal artifact correction strategies in MRI-based attenuation correction in PET/MRI
BJR— Open 1:20190033 (2019)

G Schramm, M Holler, A Rezaei, K Vunckx, F Knoll, K Bredies, F Boada, J Nuyts

Evaluation of parallel level sets and Bowsher's method as segmentation-free anatomical priors for time-of-flight PET reconstruction
IEEE transactions on medical imaging 37:590–603 (2017)

G Schramm, J Maus, F Hofheinz, J Petr, A Lougovski, B Beuthien-Baumann, L Oehme, I Platzek, J van den Hoff

Correction of quantification errors in pelvic and spinal lesions caused by ignoring higher photon attenuation of bone in [18F] NaF PET/MR
Medical physics 42:6468–6476 (2015)

G Schramm, J Maus, F Hofheinz, J Petr, A Lougovski, B Beuthien-Baumann, I Platzek, J van den Hoff

Evaluation and automatic correction of metal-implant-induced artifacts in MR-based attenuation correction in whole-body PET/MR imaging
Physics in Medicine & Biology 59:2713 (2014)

G Schramm, J Langner, F Hofheinz, J Petr, B Beuthien-Baumann, I Platzek, J Steinbach, J Kotzerke, J van den Hoff

Quantitative accuracy of attenuation correction in the Philips Ingenuity TF whole-body PET/MR system: a direct comparison with transmission-based attenuation correction
Magnetic Resonance Materials in Physics, Biology and Medicine 26:115–126 (2013)

G Schramm, J Langner, F Hofheinz, J Petr, A Lougovski, B Beuthien-Baumann, I Platzek, J van den Hoff

Influence and compensation of truncation artifacts in MR-based attenuation correction in PET/MR
IEEE transactions on medical imaging 32:2056–2063 (2013)

G Schramm, R Massarczyk, A Junghans, T Belgia, R Beyer, E Birgersson, E Grosse, M Kempe, Z Kis, K Kosev et al.

Dipole strength in 78 Se below the neutron separation energy from a combined analysis of 77 Se (n, γ) and 78 Se (γ, γ') experiments
Physical Review C 85:014311 (2012)

Last author peer-reviewed journal articles

A Reader, G Schramm

Artificial intelligence for PET image reconstruction
Journal of Nuclear Medicine 62:1330–1333 (2021)

Co-author peer-reviewed journal articles

J van Aalst, M Devrome, D Van Weehaeghe, A Rezaei, A Radwan, G Schramm, J Ceccarini, S Sunaert, M Koole, K Van Laere

Regional glucose metabolic decreases with ageing are associated with microstructural white matter changes: a simultaneous PET/MR study
European Journal of Nuclear Medicine and Molecular Imaging 49:664–680 (2022)

D Schaart, G Schramm, J Nuyts, S Surti

Time of flight in perspective: instrumental and computational aspects of time resolution in positron emission tomography
IEEE transactions on radiation and plasma medical sciences 5:598–618 (2021)

- S Meikle, V Sossi, E Roncali, S Cherry, R Banati, D Mankoff, T Jones, M James, J Sutcliffe, J Ouyang et al.
Quantitative PET in the 2020s: a roadmap
Physics in Medicine & Biology 66:06RM01 (2021)
- G Degtiarova, P Claus, J Duchenne, G Schramm, J Nuyts, H Verberne, J Voigt, O Gheysens
Impact of left bundle branch block on myocardial perfusion and metabolism: A positron emission tomography study
Journal of Nuclear Cardiology 28:1730–1739 (2021)
- D Van Weehaeghe, S Babu, J De Vocht, N Zurcher, S Chew, C Tseng, M Loggia, M Koole, A Rezaei, G Schramm et al.
Moving towards multicenter therapeutic trials in ALS: feasibility of data pooling using different TSPO positron emission tomography (PET) radioligands.
Journal of Nuclear Medicine (2020)
- J van Aalst, J Ceccarini, G Schramm, D Van Weehaeghe, A Rezaei, K Demyttenaere, S Sunaert, K Van Laere
Long-term Ashtanga yoga practice decreases medial temporal and brainstem glucose metabolism in relation to years of experience
EJNMMI research 10:1–8 (2020)
- D Van Weehaeghe, M Devrome, G Schramm, J De Vocht, W Deckers, K Baete, P Van Damme, M Koole, K Van Laere
Combined brain and spinal FDG PET allows differentiation between ALS and ALS mimics
European Journal of Nuclear Medicine and Molecular Imaging 47:2681–2690 (2020)
- X Tang, E Jafargholi Rangraz, W Coudyzer, J Bertels, D Robben, G Schramm, W Deckers, G Maleux, K Baete, C Verslype et al.
Whole liver segmentation based on deep learning and manual adjustment for clinical use in SIRT
European journal of nuclear medicine and molecular imaging 47:2742–2752 (2020)
- J De Vocht, J Blommaert, M Devrome, A Radwan, D Van Weehaeghe, M De Schaepdryver, J Ceccarini, A Rezaei, G Schramm, J van Aalst et al.
Use of multimodal imaging and clinical biomarkers in presymptomatic carriers of C9orf72 repeat expansion
JAMA neurology 77:1008–1017 (2020)
- J De Vocht, A Chio, M Pagani, D Stam, H Van Esch, N Lamaire, M Verhaegen, N Mertens, K Poesen, L van den Berg et al.
A multi-modal biomarker study reveals early brain 18F FDG-PET changes at single subject level in presymptomatic C9orf72 repeat expansion carriers
Jama Neurology (2020)
- R Boudewijns, H Thibaut, S Kaptein, R Li, V Vergote, L Seldeslachts, J Van Weyenbergh, C De Keyzer, L Bervoets, S Sharma et al.
STAT2 signaling restricts viral dissemination but drives severe pneumonia in SARS-CoV-2 infected hamsters
Nature communications 11:1–10 (2020)
- Y Tsai, G Schramm, S Ahn, A Bousse, S Arridge, J Nuyts, B Hutton, C Stearns, K Thielemans
Benefits of using a spatially-variant penalty strength with anatomical priors in PET reconstruction
IEEE Transactions on Medical Imaging 39:11–22 (2019)
- A Rezaei, G Schramm, S Willekens, G Delso, K Van Laere, J Nuyts
A quantitative evaluation of joint activity and attenuation reconstruction in TOF PET/MR brain imaging
Journal of Nuclear Medicine 60:1649–1655 (2019)
- A Rezaei, G Schramm, K Van Laere, J Nuyts
Estimation of crystal timing properties and efficiencies for the improvement of (joint) maximum-likelihood reconstructions in TOF-PET
IEEE transactions on medical imaging 39:952–963 (2019)
- F Hofheinz, J Maus, S Zschaek, J Rogasch, G Schramm, L Oehme, I Apostolova, J Kotzerke, J den Hoff
Interobserver variability of image-derived arterial blood SUV in whole-body FDG PET
EJNMMI research 9:1–8 (2019)
- G Degtiarova, P Claus, J Duchenne, M Cvijic, G Schramm, J Nuyts, J Voigt, O Gheysens
Low septal to lateral wall 18 F-FDG ratio is highly associated with mechanical dyssynchrony in non-ischemic CRT candidates
EJNMMI research 9:1–10 (2019)
- I Platzek, B Beuthien-Baumann, G Schramm, J Maus, M Laniado, J Kotzerke, J van den Hoff, M Schuler
FDG PET/MR in initial staging of sarcoma: Initial experience and comparison with conventional imaging
Clinical Imaging 42:126–123 (2017)
- R Wodtke, G Schramm, J Pietzsch, M Pietzsch, R Löser
Synthesis and Kinetic Characterisation of Water-Soluble Fluorogenic Acyl Donors for Transglutaminase 2
ChemBioChem 17:1263–1281 (2016)
- J Petr, I Platzek, A Seidlitz, H Mutsaerts, F Hofheinz, G Schramm, J Maus, B Beuthien-Baumann, M Krause, J Van Den Hoff
Early and late effects of radiochemotherapy on cerebral blood flow in glioblastoma patients measured with non-invasive perfusion MRI
Radiotherapy and Oncology 118:24–28 (2016)

- R Massarczyk, G Schramm, T Belgia, R Schwengner, R Beyer, D Bemmerer, Z Elekes, E Grosse, R Hannaske, A Junghans et al.
Role of electric and magnetic dipole strength functions in the Cd 114 (γ , γ') and Cd 113 (n , γ) reactions
Physical Review C 93:014301 (2016)
- J Maus, G Schramm, F Hofheinz, L Oehme, A Lougovski, J Petr, I Platzek, B Beuthien-Baumann, J Steinbach, J Kotzerke et al.
Evaluation of in vivo quantification accuracy of the Ingenuity-TF PET/MR
Medical physics 42:5773–5781 (2015)
- A Lougovski, F Hofheinz, J Maus, G Schramm, J Van den Hoff
On the relation between Kaiser–Bessel blob and tube of response based modelling of the system matrix in iterative PET image reconstruction
Physics in Medicine & Biology 60:4209 (2015)
- J van den Hoff, A Lougovski, G Schramm, J Maus, L Oehme, J Petr, B Beuthien-Baumann, J Kotzerke, F Hofheinz
Correction of scan time dependence of standard uptake values in oncological PET
EJNMMI research 4:1–14 (2014)
- I Platzek, B Beuthien-Baumann, R Ordemann, J Maus, G Schramm, H Kitzler, M Laniado, J Kotzerke, J van den Hoff
FDG PET/MR for the assessment of lymph node involvement in lymphoma: initial results and role of diffusion-weighted MR
Academic Radiology 21:1314–1319 (2014)
- J Petr, G Schramm, F Hofheinz, J Langner, J van den Hoff
Modeling magnetization transfer effects of Q2TIPS bolus saturation in multi-TI pulsed arterial spin labeling
Magnetic Resonance in Medicine 72:1007–1014 (2014)
- J Maus, F Hofheinz, G Schramm, L Oehme, B Beuthien-Baumann, M Lukas, R Buchert, J Steinbach, J Kotzerke, J van den Hoff
Evaluation of PET quantification accuracy in vivo
Nuklearmedizin-NuclearMedicine 53:67–77 (2014)
- R Massarczyk, R Schwengner, F Dónau, S Frauendorf, M Anders, D Bemmerer, R Beyer, C Bhatia, E Birgersson, M Butterling et al.
Nuclear deformation and neutron excess as competing effects for dipole strength in the pygmy region
Physical Review Letters 112:072501 (2014)
- A Lougovski, F Hofheinz, J Maus, G Schramm, E Will, J Van den Hoff
A volume of intersection approach for on-the-fly system matrix calculation in 3D PET image reconstruction
Physics in Medicine & Biology 59:561 (2014)
- I Apostolova, J Rogasch, R Buchert, H Wertz, H Achenbach, J Schreiber, S Riedel, C Furth, A Lougovski, G Schramm et al.
Quantitative assessment of the asphericity of pretherapeutic FDG uptake as an independent predictor of outcome in NSCLC
BMC cancer 14:1–10 (2014)
- J van den Hoff, L Oehme, G Schramm, J Maus, A Lougovski, J Petr, B Beuthien-Baumann, F Hofheinz
The PET-derived tumor-to-blood standard uptake ratio (SUR) is superior to tumor SUV as a surrogate parameter of the metabolic rate of FDG
EJNMMI research 3:1–8 (2013)
- J Van den Hoff, F Hofheinz, L Oehme, G Schramm, J Langner, B Beuthien-Baumann, J Steinbach, J Kotzerke
Dual time point based quantification of metabolic uptake rates in 18 F-FDG PET
EJNMMI research 3:1–11 (2013)
- I Platzek, B Beuthien-Baumann, J Langner, M Popp, G Schramm, R Ordemann, M Laniado, J Kotzerke, J van den Hoff
PET/MR for therapy response evaluation in malignant lymphoma: initial experience
Magnetic Resonance Materials in Physics, Biology and Medicine 26:49–55 (2013)
- J Petr, G Schramm, F Hofheinz, J Langner, J van den Hoff
Partial volume correction in arterial spin labeling using a Look-Locker sequence
Magnetic resonance in medicine 70:1535–1543 (2013)
- R Massarczyk, G Schramm, A Junghans, R Schwengner, M Anders, T Belgia, R Beyer, E Birgersson, A Ferrari, E Grosse et al.
Electromagnetic dipole strength up to the neutron separation energy from 196 Pt (γ , γ') and 195 Pt (n , γ) reactions
Physical Review C 87:044306 (2013)
- R Hannaske, Z Elekes, R Beyer, A Junghans, D Bemmerer, E Birgersson, A Ferrari, E Grosse, M Kempe, T Kögler et al.
Neutron total cross section measurements of gold and tantalum at the nELBE photoneutron source
The European Physical Journal A 49:137 (2013)
- R Massarczyk, R Schwengner, F Dónau, E Litvinova, G Rusev, R Beyer, R Hannaske, A Junghans, M Kempe, J Kelley et al.
Electromagnetic dipole strength of 136 Ba below the neutron separation energy
Physical Review C 86:014319 (2012)
- B Beuthien-Baumann, I Platzek, I Lauterbach, J van den Hoff, G Schramm, K Zöphel, M Laniado, J Kotzerke
Improved anatomic visualization of a glomus caroticum tumour within the carotic bifurcation with combined 68Ga-DOTATATE PET/MRI
European journal of nuclear medicine and molecular imaging 39:1087–1088 (2012)

R Beyer, E Birgersson, A Junghans, R Massarczyk, G Schramm, R Schwengner, E Grosse
Electromagnetic strength in heavy nuclei—experiments and a global fit
International Journal of Modern Physics E 20:431–442 (2011)

Conference proceedings

A Rezaei, T Deller, K Wangerin, G Schramm, F Jansen, K Van Laere, J Nuyts
Maximum Likelihood Estimation of the Geometric Sensitivities in PET
IEEE Nuclear Science Symposium (NSS) and Medical Imaging Conference (MIC) (2019)

R Heylen, G Schramm, P Suetens, J Nuyts
4D CBCT reconstruction with TV regularization on a dynamic software phantom
IEEE Nuclear Science Symposium / Medical Imaging Conference (NSS/MIC) (2019)

G Schramm, A Koole, F Boada, K van Laere, J Nuyts
An approach for a reconstruction-derived whole-blood arterial input function (RDIF) in PET/MRI
IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC) / 25th International Symposium on Room-Temperature Semiconductor X-Ray and Gamma-Ray Detectors (2018)

D Rigie, G Schramm, T Vahle, T Shepherd, J Nuyts, F Boada
Approximating MRI-Based Anatomically Guided PET Reconstruction with a Convolutional Neural Network
IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC) / 25th International Symposium on Room-Temperature Semiconductor X-Ray and Gamma-Ray Detectors (2018)

A Rezaei, G Schramm, K Van Laere, J Nuyts
Estimation of crystal timings in TOF-PET
IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC) / 25th International Symposium on Room-Temperature Semiconductor X-Ray and Gamma-Ray Detectors (2018)

J De Ro, G Schramm, J Nuyts
Evaluation of region-of-interest-based brain PET reconstruction
IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC) / 25th International Symposium on Room-Temperature Semiconductor X-Ray and Gamma-Ray Detectors (2018)

Y Tsai, G Schramm, J Nuyts, S Ahn, C Stearns, A Bousse, S Arridge, K Thielemans
Spatially-variant Strength for Anatomical Priors in PET Reconstruction
IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC) / 24th International Symposium on Room-Temperature Semiconductor X-Ray and Gamma-Ray Detectors (2017)

A Rezaei, G Schramm, K Van Laere, J Nuyts
Data driven time alignment for TOF-PET
IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC) / 24th International Symposium on Room-Temperature Semiconductor X-Ray and Gamma-Ray Detectors (2017)

G Schramm, M Holler, T Koesters, F Boada, F Knoll, K Bredies, J Nuyts
PET Reconstruction with Non-smooth Gradient-based Priors
IEEE Nuclear Science Symposium / Medical Imaging Conference / Room-Temperature Semiconductor Detector Workshop (NSS/MIC/RTSD) (2016)

R Hannaske, D Bemmerer, R Beyer, E Birgersson, A Ferrari, E Grosse, A Junghans, M Kempe, T Koegler, K Kosev, M Marta, R Massarczyk, A Matic, K Schilling, G Schramm, R Schwengner, A Wagner, D Yakorev
Measurement of the photodissociation of the deuteron at energies relevant to Big Bang nucleosynthesis
6th Nuclear Physics in Astrophysics Conference (NPA) [DOI link](#) (2016)

R Massarczyk, R Schwengner, D Bemmerer, R Beyer, R Hannaske, A Junghans, M Kempe, T Koegler, G Schramm, A Wagner
Investigation of dipole strength up to the neutron separation energy at gamma ELBE
15th International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics (CGS) [DOI link](#) (2015)

T Belgia, R Massarczyk, L Szentmiklosi, G Schramm, R Schwengner, A Junghans, A Wagner, E Grosse
Combined study of the gamma-ray strength function of Cd-114 with (n,gamma) and (gamma,gamma') reactions
15th International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics (CGS) [DOI link](#) (2015)

R Schwengner, R Beyer, A Junghans, R Massarczyk, G Schramm, D Bemmerer, E Birgersson, A Ferrari, E Grosse, R Hannaske, M Kempe, T Koegler, A Matic, K Schilling, A Wagner, Rusev, A Makinaga, T Belgia, Z Kis, L Szentmiklosi, J Weil, F Becvar, M Krlicka
EXPERIMENTS WITH NEUTRONS AND PHOTONS AT ELBE
14th International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics (CGS) (2013)

R Massarczyk, G Schramm, E Birgersson, R Schwengner, E Grosse, A Junghans, A Wagner
Investigation of dipole strength at the ELBE accelerator in Dresden-Rossendorf
3rd International Workshop on Compound Nuclear Reactions and Related Topics (CNR) [DOI link](#) (2012)

E Grosse, A Junghans, R Massarczyk, R Schwengner, G Schramm
Description of dipole strength in heavy nuclei in conformity with their quadrupole degrees of freedom
3rd International Workshop on Compound Nuclear Reactions and Related Topics (CNR) [DOI link](#) (2012)

R Massarczyk, E Birgersson, G Schramm, R Schwengner, T Belgia, R Beyer, E Grosse, R Hannaske, A Junghans, A Matic, L Szentmiklosi, J Weil, A Wagner
Photon strength function deduced from photon scattering and neutron capture
EFNUDAT Users and Collaboration Workshop on Measurements and Models of Nuclear Reactions [DOI link](#) (2010)

E Grosse, A Junghans, F Becvar, E Birgersson, R Massarczyk, G Schramm
Photon strength in spherical and deformed heavy nuclei
EFNUDAT Users and Collaboration Workshop on Measurements and Models of Nuclear Reactions [DOI link](#) (2010)

A Ferrari, R Beyer, E Birgersson, J Claussner, E Grosse, R Hannaske, A Junghans, M Kempe, T Koegler, R Massarczyk, A Matic, K Schilling, G Schramm, R Schwengner, A Wagner, F Weiss, D Yakorev
Optimization aspects of the new nELBE photo-neutron source
EFNUDAT Users and Collaboration Workshop on Measurements and Models of Nuclear Reactions [DOI link](#) (2010)