

Curriculum Vitae | Pär-Anders Söderström

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PERSONAL

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EMPLOYMENT HISTORY

Academic

- Research Scientist III **Mar 2018 –**
Extreme Light Infrastructure – Nuclear Physics, Măgurele, Romania
Institutul de Fizică și Inginerie Nucleară – “Horia Hulubei”, Măgurele, Romania
- Postdoctoral Fellow **Jan 2017 – Feb 2018**
Technische Universität Darmstadt, Darmstadt, Germany
GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany
- Foreign Postdoctoral Researcher **Feb 2014 – Dec 2016**
独立行政法人理化学研究所 (RIKEN), Wako, Japan
- Postdoctoral Researcher **Oct 2013 – Jan 2014**
独立行政法人理化学研究所 (RIKEN), Wako, Japan
- Postdoctoral Fellow **Oct 2011 – Oct 2013**
日本学術振興会 (Japan Society for the Promotion of Science), Tokyo, Japan
独立行政法人理化学研究所 (RIKEN), Wako, Japan
- Visiting Scientist **Sep 2011 – Oct 2011**
Istituto Nazionale di Fisica Nucleare, Legnaro, Italy
- Doctoral Candidate **Feb 2007 – Aug 2011**
Uppsala universitet, Uppsala, Sweden
- Undergraduate Researcher **May 2006 – Aug 2006**
Uppsala universitet, Uppsala, Sweden

EDUCATION

University

- Ph.D. in Physics, Nuclear Physics **May 2011**
Dissertation: Collective Structure of Neutron-Rich Rare-Earth Nuclei and Development of Instrumentation for Gamma-Ray Spectroscopy
Supervisors: Prof. Johan Nyberg and Prof. Ayşe Ataç
Uppsala universitet, Uppsala, Sweden
- Tk.L. in Physics, Nuclear Physics **May 2009**
Thesis: Development of Neutron Detectors for the Next Generation of Radioactive Ion-Beam Facilities
Supervisors: Prof. Johan Nyberg and Prof. Ayşe Ataç

Uppsala universitet, Uppsala, Sweden

M.Sc.Eng. in Engineering Physics, Space Engineering **Apr 2007**
Thesis: Energy spectra for protons emitted in the reaction $^{nat}\text{Ca}(n, xp)$ at 94 MeV
Supervisor: Dr. Stephan Pomp
Uppsala universitet, Uppsala, Sweden

LANGUAGES

Swedish: Native Proficiency
English: Full Professional Proficiency
Japanese: Elementary Proficiency (JLPT N5)

COMPUTER SKILLS

Programming: C++
Applications: ROOT, GEANT4
Platforms: Linux, Windows

PUBLICATIONS

Letter Type Articles

(Position in the author list given in parenthesis)

- L.1 S. Chen, . . . , P.-A. Söderström (70/82), et al. Quasifree neutron knockout from ^{54}Ca corroborates arising $N = 34$ neutron magic number. *Phys. Rev. Lett.*, **123**:142501, 2019.
- L.2 H. Wang, . . . , P.-A. Söderström (36/50), et al. Enhancement of element production by incomplete fusion reaction with weakly bound nucleus deuteron. *Commun. Phys.*, **2**:78, 2019.
- L.3 V. Vaquero, . . . , P.-A. Söderström (32/35), et al. Inclusive cross sections for one- and multi-nucleon removal from Sn, Sb, and Te projectiles beyond the $N = 82$ shell closure. *Phys. Lett.*, **B795**:356, 2019.
- L.4 D. Lubos, . . . , P.-A. Söderström (43/52), et al. Improved Value for the Gamow-Teller Strength of the ^{100}Sn Beta-Decay. *Phys. Rev. Lett.*, **122**:222502, 2019.
- L.5 Z. Q. Chen, . . . , P.-A. Söderström (48/68), et al. Proton Shell Evolution below ^{132}Sn : First Measurement of Low-Lying β -emitting Isomers in $^{123,125}\text{Ag}$. *Phys. Rev. Lett.*, **122**:212502, 2019.
- L.6 R. Taniuchi, . . . , P.-A. Söderström (64/72), et al. ^{78}Ni revealed as a doubly-magic stronghold against nuclear deformation. *Nature*, **569**:53, 2019.
- L.7 N. Paul, . . . , P.-A. Söderström (83/93), et al. Prominence of Pairing in Inclusive $(p, 2p)$ and (p, pn) Cross Sections from Neutron-Rich Nuclei. *Phys. Rev. Lett.*, **122**:162503, 2019.
- L.8 H. Watanabe, . . . , P.-A. Söderström (7/54), et al. New isomers in $^{125}\text{Pd}_{79}$ and $^{127}\text{Pd}_{81}$: Competing proton and neutron excitations in neutron-rich palladium nuclides towards the $N = 82$ shell closure. *Phys. Lett.*, **B792**:263, 2019.
- L.9 K. Wimmer, . . . , P.-A. Söderström (12/41), et al. First spectroscopy of ^{61}Ti and the transition to the Island of Inversion at $N = 40$ *Phys. Lett.*, **B792**:16, 2019.

- L.10 H. N. Liu, ..., P.-A. Söderström (67/79), et al. How Robust is the $N = 34$ Subshell Closure? First Spectroscopy of ^{52}Ar . *Phys. Rev. Lett.*, **122**:072502, 2019.
- L.11 P. J. Davies, ..., P.-A. Söderström (64/80), et al. Toward the limit of nuclear binding on the $N = Z$ line: Spectroscopy of ^{96}Cd . *Phys. Rev. C*, **99**:021302(R), 2019.
- L.12 X.Y. Liu, ..., P.-A. Söderström (68/80), et al. Spectroscopy of $^{65,67}_{25}\text{Mn}$: Strong Coupling in the $N = 40$ "Island of Inversion" *Phys. Lett.*, **B784**:392, 2018.
- L.13 A.I. Morales, ..., P.-A. Söderström (20/59), et al. Is Seniority a Partial Dynamic Symmetry in the First $\nu g_{9/2}$ Shell? *Phys. Lett.*, **B781**:706, 2018.
- L.14 J. Park, ..., P.-A. Söderström (44/52), et al. β decays of the heaviest $N = Z - 1$ nuclei and proton instability of ^{97}In . *Phys. Rev. C*, **97**:051301(R), 2018.
- L.15 H. Suzuki, L. Sinclair, P.-A. Söderström (3/36), et al. Discovery of ^{72}Rb : A Nuclear Sandbank Beyond the Proton Drip Line. *Phys. Rev. Lett.*, **119**:192503, 2017.
- L.16 L. Olivier, ..., P.-A. Söderström (58/65), et al. Persistence of the $Z = 28$ Shell Gap Around ^{78}Ni : First Spectroscopy of ^{79}Cu . *Phys. Rev. Lett.*, **119**:192501, 2017.
- L.17 C. M. Shand, ..., P.-A. Söderström (85/94), et al. Shell Evolution Beyond $Z = 28$ and $N = 50$: Spectroscopy of $^{81,82,83,84}\text{Zn}$. *Phys. Lett.*, **B773**:492, 2017.
- L.18 A. Jungclaus, ..., P.-A. Söderström (7/61), et al. Observation of a γ -decaying millisecond isomeric state in $^{128}\text{Cd}_{80}$. *Phys. Lett.*, **B772**:483, 2017.
- L.19 M. Lettmann, ..., P.-A. Söderström (60/64), et al. Triaxiality of neutron-rich $^{84,86,88}\text{Ge}$ from low-energy nuclear spectra. *Phys. Rev. C*, **96**:011301(R), 2017.
- L.20 E. Sahin, ..., P.-A. Söderström (35/47), et al. Shell evolution towards ^{78}Ni : low-lying states in ^{77}Cu . *Phys. Rev. Lett.*, **118**:242502, 2017.
- L.21 F. Flavigny, ..., P.-A. Söderström (61/66), et al. Shape Coexistence and Evolution in Heavy Krypton Isotopes beyond $N = 60$: First spectroscopy of $^{98,100}\text{Kr}$. *Phys. Rev. Lett.*, **118**:242501, 2017.
- L.22 T. Sumikama, ..., P.-A. Söderström (27/40), et al. Observation of new neutron-rich Mn, Fe, Co, Ni, and Cu isotopes in the vicinity of ^{78}Ni . *Phys. Rev. C*, **95**:051601(R), 2017.
- L.23 V. Vaquero, ..., P.-A. Söderström (31/34), et al. Gamma decay of unbound neutron-hole states in ^{133}Sn . *Phys. Rev. Lett.*, **118**:202502, 2017.

- L.24 S. Chen, ..., P.-A. Söderström (58/63), et al. Low-lying structure and shape evolution in neutron-rich Se isotopes. *Phys. Rev. C*, **95**:041302(R), 2017.
- L.25 P. J. Davies, ..., P.-A. Söderström (35/46), et al. The role of core excitations in the structure and decay of the 16^+ spin-gap isomer in ^{96}Cd . *Phys. Lett.*, **B767**:474, 2017.
- L.26 J. Wu, ..., P.-A. Söderström (8/68), et al. 94 β -Decay Half-lives of Neutron-Rich ^{55}Cs to ^{67}Ho : Experimental Feedback and Evaluation of the r-Process Rare-Earth Peak Formation. *Phys. Rev. Lett.*, **118**:072701, 2017.
- L.27 P. Schury, ..., P.-A. Söderström (19/22), et al. First Online Multi-Reflection Time-of-Flight Mass Measurements of Isobar Chains Produced by Fusion-Evaporation Reactions: Toward Identification of Super-Heavy Elements via Mass Spectroscopy. *Phys. Rev. C*, **95**:011305(R), 2017.
- L.28 N. Paul, ..., P.-A. Söderström (65/71), et al. Are There Signatures of Harmonic Oscillator Shell Gaps Far From Stability? – First Spectroscopy of ^{110}Zr . *Phys. Rev. Lett.*, **118**:032501, 2017.
- L.29 A. I. Morales, ..., P.-A. Söderström (15/55), et al. Type II shell evolution in $A = 70$ isobars from the $N \geq 40$ island of inversion *Phys. Lett.*, **B765**:328, 2017.
- L.30 P.-A. Söderström (1/61), et al. K -mixing in the doubly mid-shell nuclide ^{170}Dy and the role of vibrational degeneracy. *Phys. Lett.*, **B762**:404, 2016.
- L.31 T. Goigoux, ..., P.-A. Söderström (12/53), et al. Two-proton radioactivity of ^{67}Kr . *Phys. Rev. Lett.*, **117**:162501, 2016.
- L.32 K. Hadyńska-Kleń, ..., P.-A. Söderström (100/113), et al. Superdeformed and triaxial states in ^{42}Ca . *Phys. Rev. Lett.*, **117**:062501, 2016.
- L.33 H. Watanabe, ..., P.-A. Söderström (8/60), et al. Long-lived K isomer and enhanced γ vibration in the neutron-rich nucleus ^{172}Dy : Collectivity beyond double midshell. *Phys. Lett.*, **B760**:641, 2016.
- L.34 B. Blank, ..., P.-A. Söderström (27/52), et al. New neutron-deficient isotopes from ^{78}Kr fragmentation. *Phys. Rev. C*, **93**:061301(R), 2016.
- L.35 I. Čeliković, ..., P.-A. Söderström (43/59), et al. New Isotopes and Proton Emitters—Crossing the Drip Line in the Vicinity of ^{100}Sn . *Phys. Rev. Lett.*, **116**:162501, 2016.
- L.36 A. Jungclaus, ..., P.-A. Söderström (10/52), et al. First observation of γ rays emitted from excited states south-east of ^{132}Sn : The $\pi g_{9/2}^{-1} \otimes \nu f_{7/2}$ multiplet of $^{132}\text{In}_{83}$. *Phys. Rev. C*, **93**:041301(R), 2016.

- L.37 H. Wang, . . . , P.-A. Söderström (20/28), et al. Spallation reaction study for fission products in nuclear waste: Cross section measurements for ^{137}Cs and ^{90}Sr on proton and deuteron. *Phys. Lett.*, **B754**:104, 2016.
- L.38 Z. Patel, . . . , P.-A. Söderström (5/57), et al. Decay spectroscopy of ^{160}Sm : The lightest four-quasiparticle K isomer. *Phys. Lett.*, **B753**:182, 2016.
- L.39 S. Ceruti, . . . , P.-A. Söderström (48/53), et al. Isospin mixing in ^{80}Zr : from finite to zero temperature. *Phys. Rev. Lett.*, **115**:222502, 2015.
- L.40 P.-A. Söderström (1/45), et al. Two-hole structure outside ^{78}Ni : Existence of a μs isomer of ^{76}Co and β decay into ^{76}Ni . *Phys. Rev. C*, **92**:051305(R), 2015.
- L.41 C. Santamaria, . . . , P.-A. Söderström (56/63), et al., Extension of the $N = 40$ Island of Inversion towards $N = 50$: Spectroscopy of ^{66}Cr , $^{70,72}\text{Fe}$. *Phys. Rev. Lett.*, **115**:192501, 2015.
- L.42 G. Benzoni, . . . , P.-A. Söderström (16/52), et al. Decay properties of $^{68,69,70}\text{Mn}$: Probing collectivity up to $A = 44$ in Fe isotopic chain. *Phys. Lett.*, **B751**:107, 2015.
- L.43 F. Browne, . . . , P.-A. Söderström (8/40), et al. Lifetime measurements of the first 2^+ states in $^{104,106}\text{Zr}$: Evolution of ground-state deformations. *Phys. Lett.*, **B750**:448, 2015.
- L.44 D. Steppenbeck, . . . , P.-A. Söderström (19/23), et al. Low-Lying Structure of ^{50}Ar and the $N = 32$ Subshell Closure. *Phys. Rev. Lett.*, **114**:252501, 2015.
- L.45 G. Lorusso, . . . , P.-A. Söderström (7/55), et al. β -Decay Half-Lives of 110 Neutron-Rich Nuclei across the $N = 82$ Shell Gap: Implications for the Mechanism and Universality of the Astrophysical r Process. *Phys. Rev. Lett.*, **114**:192501, 2015.
- L.46 Z. Patel, P.-A. Söderström (2/57), et al. Isomer decay spectroscopy of ^{164}Sm and ^{166}Gd : Mid-shell collectivity around $N = 100$. *Phys. Rev. Lett.*, **113**:262502, 2014.
- L.47 L. Pellegri, . . . , P.-A. Söderström (62/67), et al. Pygmy Dipole Resonance in ^{124}Sn populated by inelastic scattering of ^{17}O . *Phys. Lett.*, **B738**:519, 2014.
- L.48 J. Taprogge, . . . , P.-A. Söderström (10/61), et al. Identification of a millisecond isomeric state in $^{129}\text{Cd}_{81}$ via the detection of internal conversion and Compton electrons. *Phys. Lett.*, **B738**:223, 2014.
- L.49 G. S. Simpson, . . . , P.-A. Söderström (9/51), et al. Yrast 6^+ Seniority Isomers of $^{136,138}\text{Sn}$. *Phys. Rev. Lett.*, **113**:132502, 2014.
- L.50 P. R. John, . . . , P.-A. Söderström (70/76), et al. Shape evolution in the neutron-rich Osmium isotopes: Prompt γ -ray spectroscopy of ^{196}Os . *Phys. Rev. C*,

90:021301(R), 2014.

- L.51 H. Watanabe, . . . , P.-A. Söderström (8/54), et al. Monopole-Driven Shell Evolution below the Doubly Magic Nucleus ^{132}Sn Explored with the Long-Lived Isomer in ^{126}Pd . *Phys. Rev. Lett.*, **113**:042502, 2014.
- L.52 Z. Y. Xu, . . . , P.-A. Söderström (10/39), et al. β -Decay Half-Lives of $^{76,77}\text{Co}$, $^{79,80}\text{Ni}$ and ^{81}Cu : Experimental Indication of a Doubly Magic ^{78}Ni . *Phys. Rev. Lett.*, **113**:032505, 2014.
- L.53 F. C. L. Crespi, . . . , P.-A. Söderström (61/65), et al. Isospin character of low-lying pygmy states in ^{208}Pb via inelastic scattering of ^{17}O ions. *Phys. Rev. Lett.*, **113**:012501, 2014.
- L.54 J. Taprogge, . . . , P.-A. Söderström (8/60), et al. $1p_{3/2}$ Proton-Hole State in ^{132}Sn and the Shell Structure Along $N = 82$. *Phys. Rev. Lett.*, **112**:132501, 2014.
- L.55 D. Steppenbeck, . . . , P.-A. Söderström (19/25), et al. Evidence for a new nuclear ‘magic’ number from the structure of ^{54}Ca . *Nature*, **502**:207, 2013.
- L.56 H. Watanabe, . . . , P.-A. Söderström (6/52), et al. Isomers in ^{126}Pd and ^{128}Pd : Evidence for a Robust Shell Closure at the Neutron Magic Number 82 in Exotic Palladium Isotopes. *Phys. Rev. Lett.*, **111**:152501, 2013.
- L.57 C. Hinke, . . . , P.-A. Söderström (59/62), et al. Superaligned Gamow-Teller Decay of Doubly Magic ^{100}Sn . *Nature*, **486**:341, 2012.
- L.58 B. S. Nara Singh, . . . , P.-A. Söderström (47/52), et al. Influence of the np interaction on the β decay of ^{94}Pd . *Phys. Rev. C*, **86**:041301(R), 2012.
- L.59 B. S. Nara Singh, . . . , P.-A. Söderström (48/54), et al. Existence of the 16^+ spin-gap isomer in ^{96}Cd . *Phys. Rev. Lett.*, **107**:172502, 2011.
- L.60 B. Cederwall, . . . , P.-A. Söderström (51/57), et al. New spin-aligned pairing phase in atomic nuclei inferred from the structure of ^{92}Pd . *Nature*, **469**:68, 2011.
- L.61 T. S. Brock, . . . , P.-A. Söderström (47/52), et al. Observation of a new high-spin isomer in ^{94}Pd . *Phys. Rev. C*, **82**:061309(R), 2010.

Regular Articles – Physics

(Position in the author list given in parenthesis)

- A.1 L. Kaya, . . . , P.-A. Söderström (59/70), et al. Isomer spectroscopy in ^{133}Ba and high-spin structure of ^{134}Ba . *Phys. Rev. C*, **100**:024323, 2019.
- A.2 G. Häfner, . . . , P.-A. Söderström (36/47), et al. Properties of γ -decaying isomers in the ^{100}Sn region populated in fragmentation of a ^{124}Xe beam. *Phys. Rev. C*, **100**:024302, 2019.

- A.3 J. Park, ..., P.-A. Söderström (44/52), et al. New and comprehensive β - and βp -decay spectroscopy results in the vicinity of ^{100}Sn . *Phys. Rev. C*, **99**:034313, 2019.
- A.4 V. Vaquero, ..., P.-A. Söderström (31/34), et al. In-beam γ -ray spectroscopy of ^{136}Te at relativistic energies. *Phys. Rev. C*, **99**:034306, 2019.
- A.5 S. Takeuchi, ..., P.-A. Söderström (43/51), et al. Coulomb breakup reactions of $^{93,94}\text{Zr}$ in inverse kinematics. *Prog. Theor. Exp. Phys.*, **2019**:013D02, 2019.
- A.6 Z. Elekes, ..., P.-A. Söderström (59/67), et al. Nuclear structure of ^{76}Ni from the $(p, 2p)$ reaction. *Phys. Rev. C*, **99**:014312, 2019.
- A.7 L. Kaya, ..., P.-A. Söderström (53/62), et al. Identification of high-spin proton configurations in ^{136}Ba and ^{137}Ba . *Phys. Rev. C*, **99**:014301, 2019.
- A.8 L. Kaya, ..., P.-A. Söderström (53/62), et al. Millisecond $23/2^+$ isomers in the $N = 79$ isotones ^{133}Xe and ^{135}Ba . *Phys. Rev. C*, **98**:054312, 2018.
- A.9 L. Kaya, ..., P.-A. Söderström (62/72), et al. High-spin structure in the transitional nucleus ^{131}Xe : Competitive neutron and proton alignment in the vicinity of the $N = 82$ shell closure *Phys. Rev. C*, **98**:014309, 2018.
- A.10 J. Litzinger, ..., P.-A. Söderström (59/66), et al. Transition probabilities in neutron-rich $^{80,82}\text{Se}$ and the role of the $\nu g_{9/2}$ orbital. *Phys. Rev. C*, **97**:044323, 2018.
- A.11 M. L. Cortés, ..., P.-A. Söderström (61/68), et al. Inelastic scattering of neutron-rich Ni and Zn isotopes off a proton target. *Phys. Rev. C*, **97**:044315, 2018.
- A.12 R. Yokoyama, ..., P.-A. Söderström (8/52), et al. Beta-gamma spectroscopy of the neutron-rich ^{150}Ba . *Prog. Theor. Exp. Phys.*, **2018**:041D02, 2018.
- A.13 K. Hadyńska-Klęk, ..., P.-A. Söderström (99/112), et al. Quadrupole collectivity in ^{42}Ca from low-energy Coulomb excitation with AGATA. *Phys. Rev. C*, **97**:024326, 2018.
- A.14 Y. Shimizu, ..., P.-A. Söderström (23/35), et al. Observation of New Neutron-rich Isotopes among Fission Fragments from In-flight Fission of 345 MeV/nucleon ^{238}U : Search for New Isotopes Conducted Concurrently with Decay Measurement Campaigns. *J. Phys. Soc. Jpn.*, **87**:014203, 2018.
- A.15 D. Steppenbeck, ..., P.-A. Söderström (18/25), et al. Structure of ^{55}Sc and development of the $N = 34$ subshell closure. *Phys. Rev. C*, **96**:064310, 2017.
- A.16 R. Kumar, ..., P.-A. Söderström (13/15), N. Kumar, and H.-J. Wollersheim. No evidence of reduced collectivity in Coulomb excited Sn isotopes. *Phys. Rev. C*, **96**:054318, 2017.

- A.17 J. Park, . . . , P.-A. Söderström (44/52), et al. Properties of γ -decaying isomers and isomeric ratios in the ^{100}Sn region. *Phys. Rev. C*, **96**:044311, 2017.
- A.18 S. Kawase, . . . , P.-A. Söderström (40/48), et al. Study of proton and deuteron induced spallation reactions on the long-lived fission product ^{93}Zr at 105 MeV/nucleon in inverse kinematics. *Prog. Theor. Exp. Phys.*, **2017**:093D03, 2017.
- A.19 Z. Patel, . . . , P.-A. Söderström (6/58), et al. Isomer-delayed γ -ray spectroscopy of $A = 159 - 164$ midshell nuclei and the variation of K -forbidden E1 transition hindrance factors. *Phys. Rev. C*, **96**:034305, 2017.
- A.20 A. Vogt, . . . , P.-A. Söderström (72/82), et al. High-spin structures in ^{132}Xe and ^{133}Xe and evidence for isomers along the $N = 79$ isotones. *Phys. Rev. C*, **96**:024321, 2017.
- A.21 F. Browne, . . . , P.-A. Söderström (8/47), et al. K -selection in the decay of the $(\nu_{\frac{5}{2}}[532] \otimes \frac{3}{2}[411])4^-$ isomeric state in ^{102}Zr . *Phys. Rev. C*, **96**:024309, 2017.
- A.22 B. Moon, . . . , P.-A. Söderström (5/50), et al. β -decay scheme of ^{140}Te to ^{140}I : Suppression of Gamow-Teller transitions between the neutron $h_{9/2}$ and proton $h_{11/2}$ doublet orbitals. *Phys. Rev. C*, **96**:014325, 2017.
- A.23 A. I. Morales, . . . , P.-A. Söderström (52/58), et al. Simultaneous investigation of the $T = 1(J^\pi = 0^+)$ and $T = 0(J^\pi = 9^+)$ β decays in ^{70}Br . *Phys. Rev. C*, **95**:064327, 2017.
- A.24 P.R. John, . . . , P.-A. Söderström (53/58), et al. In-beam γ -ray spectroscopy of the neutron-rich platinum isotope ^{200}Pt towards the $N = 126$ shell gap. *Phys. Rev. C*, **95**:064321, 2017.
- A.25 B. Moon, C.-B. Moon, P.-A. Söderström (3/50), et al. Nuclear structures and β -decay schemes for Te nuclides beyond $N = 82$. *Phys. Rev. C*, **95**:044322, 2017.
- A.26 A. Vogt, . . . , P.-A. Söderström (77/89), et al. Isomers and high-spin structures in the $N = 81$ isotones ^{135}Xe and ^{137}Ba . *Phys. Rev. C*, **95**:024316, 2017.
- A.27 H. Wang, . . . , P.-A. Söderström (37/49), et al. Spallation reaction study for the long-lived fission product ^{107}Pd . *Prog. Theor. Exp. Phys.*, **2017**:021D01, 2017.
- A.28 E. Ideguchi, . . . , P.-A. Söderström (8/51), et al. μs isomers of $^{158,160}\text{Nd}$. *Phys. Rev. C*, **94**:064322, 2016.
- A.29 J. Taprogge, . . . , P.-A. Söderström (9/62), et al. Proton-hole and core-excited states in the semi-magic nucleus $^{131}\text{In}_{82}$. *Eur. Phys. J.*, **A52**:347, 2016.
- A.30 A. Jungclaus, . . . , P.-A. Söderström (7/61), et al. The β decay of semi-magic ^{130}Cd : Revision and extension of the level scheme of ^{130}In . *Phys. Rev. C*, **94**:024303, 2016.

- A.31 D. Montanari, . . . , P.-A. Söderström (36/43), et al. Pair neutron transfer in $^{60}\text{Ni} + ^{116}\text{Sn}$ probed via γ -particle coincidences. *Phys. Rev. C*, **93**:054623, 2016.
- A.32 A. Vogt, . . . , P.-A. Söderström (62/74), et al. High-spin structure of ^{134}Xe . *Phys. Rev. C*, **93**:054325, 2016.
- A.33 M. Krzysiek, . . . , P.-A. Söderström (52/56), et al. Pygmy dipole resonance in ^{140}Ce via inelastic scattering of ^{17}O . *Phys. Rev. C*, **93**:044330, 2016.
- A.34 A.I. Morales, . . . , P.-A. Söderström (13/53), et al. Low-lying excitations in ^{72}Ni . *Phys. Rev. C*, **93**:034328, 2016.
- A.35 R. Lozeva, . . . , P.-A. Söderström (10/50), et al. New isomer found in $^{140}_{51}\text{Sb}_{89}$: Sphericity and shell evolution between $N = 82$ and $N = 90$. *Phys. Rev. C*, **93**:014316, 2016.
- A.36 J. Litzinger, . . . , P.-A. Söderström (60/67), et al. Transition probabilities in neutron-rich $^{84,86}\text{Se}$. *Phys. Rev. C*, **92**:064322, 2015.
- A.37 C. Stahl, . . . , P.-A. Söderström (37/41), et al. Population of the 2^+_{ms} mixed-symmetry state of ^{140}Ba with the α -transfer reaction. *Phys. Rev. C*, **92**:044324, 2015.
- A.38 P. Lee, . . . , P.-A. Söderström (10/45), et al. β -delayed γ -ray spectroscopy on non-yrast states in ^{138}Te near the neutron drip line. *Phys. Rev. C*, **92**:044320, 2015.
- A.39 B. Birkenbach, . . . , P.-A. Söderström (48/57), et al. Spectroscopy of the neutron-rich actinide nucleus ^{240}U following multinucleon-transfer reactions. *Phys. Rev. C*, **92**:044319, 2015.
- A.40 A. Vogt, . . . , P.-A. Söderström (48/57), et al. Light and heavy transfer products in $^{136}\text{Xe} + ^{238}\text{U}$ multinucleon transfer reactions. *Phys. Rev. C*, **92**:024619, 2015.
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