

**Steffen Strauch**, Professor of Physics  
Department of Physics and Astronomy  
University of South Carolina

**(a) Professional Preparation**

Technische Hochschule Darmstadt	Darmstadt, Germany	Physics	Dipl. Phys., 1993
Technische Hochschule Darmstadt	Darmstadt, Germany	Physics	Ph.D., 1998
Rutgers University	Piscataway, NJ	Nuclear Physics	1998 – 2001

**(b) Appointments**

2016 – Present	Professor of Physics, University of South Carolina, Columbia, SC
2005 – 2016	Associate Professor of Physics, University of South Carolina, Columbia, SC
2001 – 2005	Research Assistant Professor of Physics, The George Washington University, Washington, DC
1998 – 2001	Research Associate and Postdoctoral Fellow, Rutgers University, Piscataway, NJ

**(c) Products**

• Products most closely related to the proposed project

1. A.V. Anisovich, V. Burkert, J. Hartmann, E. Klempt, V.A. Nikonov, E. Pasyuk, A.V. Sarantsev, S. Strauch, U. Thoma, *Evidence for  $\Delta(2200)7/2^-$  from photoproduction and consequence for chiral-symmetry restoration at high mass*, Phys. Lett. B **766**, 357 (2017). <http://dx.doi.org/10.1016/j.physletb.2016.12.014>
2. S. Strauch, et al. (CLAS Collaboration), *First Measurement of the Polarization Observable  $E$  in the  $\vec{p}(\vec{\gamma}, \pi^+)n$  Reaction up to 2.25 GeV*, Phys. Lett. B **750**, 53 (2015). <http://dx.doi.org/10.1016/j.physletb.2015.08.053>
3. I. Yaron, et al. (A1 Collaboration), *Polarization-transfer measurement to a large-virtuality bound proton in the deuteron*, Phys. Lett. B **769**, 21 (2017). <http://dx.doi.org/10.1016/j.physletb.2017.01.034>
4. S.P. Malace, M. Paolone, S. Strauch, et al. (E03-104 Collaboration), *A precise extraction of the induced polarization in the  $^4\text{He}(e, e'\vec{p})^3\text{H}$  reaction*, Phys. Rev. Lett. **106**, 052501 (2011). <http://link.aps.org/doi/10.1103/PhysRevLett.106.052501>
5. M. Paolone, S.P. Malace, S. Strauch, et al. (E03-104 Collaboration), *Polarization Transfer in the  $^4\text{He}(\vec{e}, e'\vec{p})^3\text{H}$  Reaction at  $Q^2 = 0.8$  and  $1.3 \text{ GeV}/c^2$* , Phys. Rev. Lett. **105**, 072001 (2010). <http://link.aps.org/doi/10.1103/PhysRevLett.105.072001>

• Other significant products

1. R. Gilman, et al. (MUSE Collaboration), *Technical Design Report for the Paul Scherrer Institute Experiment R-12-01.1: Studying the Proton "Radius" Puzzle with  $\mu p$  Elastic Scattering*, arXiv:1709.09753 [physics.ins-det] <http://arxiv.org/abs/arXiv:1709.09753>
2. E. Kraus, K.E. Mesick, A. White, R. Gilman, S. Strauch, *Polynomial fits and the proton radius puzzle*, Phys. Rev. **C90**, 045206 (2014). <http://dx.doi.org/10.1103/PhysRevC.90.045206>
3. G. Ron et al. (Hall A Collaboration), *The Proton Elastic Form Factor Ratio  $\mu_p G_p^E/G_p^M$  at Low Momentum Transfer*, Phys. Rev. Lett. **99**, 202002 (2007). <http://link.aps.org/>

abstract/PRL/v99/e202002

4. S. Strauch, B.L. Berman, et al. (CLAS Collaboration), *Beam-Helicity Asymmetries in Double-Charged-Pion Photoproduction on the Proton*, Phys. Rev. Lett. **95**, 162003 (2005). <http://link.aps.org/abstract/PRL/v95/e162003>
5. S. Strauch et al. (E93-049 Collaboration), *Polarization Transfer in the  $^4\text{He}(\vec{e}, e'\vec{p})^3\text{H}$  Reaction up to  $Q^2 = 2.6 \text{ (GeV/c)}^2$* , Phys. Rev. Lett. **91**, 052301 (2003). <http://link.aps.org/abstract/PRL/v91/e052301>

**(d) Synergistic Activities**

- Co-spokesperson of the muon-scattering experiment MUSE at PSI and of experiments at Jefferson Lab.
- Co-organizer of the ECT\* workshop “Hadrons in the Nuclear Medium” (2012) and the NSTAR 2017 Conference; Co-editor of NSTAR 2017 Conference proceedings in Springer’s Few-Body Systems.
- Reviewer of funding proposals and papers.
- Invited talks at international conferences, seminars, and colloquia; invited lecturer.
- Judge at the SCAS and the USC Science & Engineering Fair and mentor at SC Midway Physics Day.