MATTHIAS R. SCHINDLER

Associate Professor

Department of Physics and Astronomy

University of South Carolina

EDUCATION AND TRAINING

Johannes Gutenberg University	Diplom	2004
Johannes Gutenberg University	PhD	2007

PROFESSIONAL APPOINTMENTS

Associate Professor	University of South Carolina	2017–present
Assistant Professor	University of South Carolina	2011–2016
Postdoctoral Research Associate	George Washington University	2009–2010
Postdoctoral Research Associate	Ohio University	2007–2009

HONORS AND AWARDS

USC Breakthrough Stars	University of South Carolina	2016
Presidential Early Career Award for Scientists and Engineers	United States Government	2013
Early Career Award	U.S. Department of Energy	2013
Few-Body Systems Award	European Research Committee on Few-Body Problems in Physics	2013
Dissertation Award	Johannes Gutenberg University	2008
Government of Canada Award		2005–2006
Marie Curie Fellowship	European Commission	2005

SYNERGISTIC ACTIVITIES

Reviewer for Department of Energy, European Physical Journal, Nuclear Physics A, Physics Letters B, Physical Review

Associated Member of the Collaborative Research Center "The Low-Energy Frontier of the Standard Model: From Quarks and Gluons to Hadrons and Nuclei," Mainz, Germany

Member-at-large, Executive Committee of the APS Topical Group on Few-Body Systems and Multiparticle Dynamics (2014-16)

Local organizing committee 2014 Annual Meeting of the Southeastern Section of the APS

BOOK

S. Scherer, M. R. Schindler, "A Primer for Chiral Perturbation Theory," Springer Lecture Notes in Physics, Vol. 830, 1-338 (2012).

SELECTED PEER-REVIEWED PUBLICATIONS

1. M. R. Schindler, H. Singh, R. P. Springer, "Large-N_c Relationships Among Two-Derivative Pionless Effective Field Theory Couplings," Phys. Rev. C 98, 044001 (2018).

2. R. Kamand, B. Altschul, M. R. Schindler, "Hadronic Lorentz Violation in Chiral Perturbation Theory," Phys. Rev. D 95, 056005 (2017).

3. M. R. Schindler, R. P. Springer, J. Vanasse, "Large-N_c limit reduces the number of independent few-body parity-violating low-energy constants in pionless effective field theory," Phys. Rev. C93, 025502 (2016).

4. D. Samart, C. Schat, M. R. Schindler, D. R. Phillips, "Time-reversal-invariance-violating nucleon-nucleon potential in the $1/N_c$ expansion," Phys. Rev. C 94, 024001 (2016).

5. M. R. Schindler, R. P. Springer, "The Theory of Parity Violation in Few-Nucleon Systems," Prog. Part. Nucl. Phys. 72, 1-43 (2013).

6. J. Vanasse, M. R. Schindler, "Energy dependence of the parity-violating asymmetry of circularly polarize photons in $d\gamma \to np$ in pionless effective field theory," Phys. Rev. C 90, 044001 (2014).

7. M. R. Schindler, D. R. Phillips, "Bayesian Methods for Parameter Estimation in Effective Field Theories," Annals Phys. 324, 682 (2009). Erratum: Annals Phys. 324, 205 (2009).

8. M. R. Schindler, D. Djukanovic, J. Gegelia, S. Scherer, "Chiral expansion of the nucleon mass to order (q^6)," Phys. Lett. B 649, 390 (2007).

9. M. R. Schindler, J. Gegelia, S. Scherer, "Electromagnetic form-factors of the nucleon in chiral perturbation theory including vector mesons," Eur. Phys. J. A 26, 1 (2005).

10. D. Djukanovic, M. R. Schindler, J. Gegelia, G. Japaridze, S. Scherer, "Universality of the ρ-meson coupling in effective field theory," Phys. Rev. Lett. 93, 122002 (2004).