CURRICULUM VITÆ

Anna Hasenfratz

EDUCATION:

M.S. (Physics) Loránd Eötvös University, Budapest, 1980
Ph.D. (Physics) Loránd Eötvös University, Budapest, 1982
Postdoctoral Research Associate, Central Research Institute for Physics, Budapest, Hungary, 1982-1984
Postdoctoral Research Associate, University of Michigan, Ann Arbor, 1984-1985

PROFESSIONAL EXPERIENCE:

August 1998–present:
Professor with tenure, Physics Department, University of Colorado, Boulder
September 2006–September 2007:
Visiting Scientist at the Max Planck Institute for Theoretical Physics, Munich, Germany October 2006–February 2007:
Visiting Professor at the Institute of Theoretical Physics, University of Bern, Switzerland
August 1992–August 1998:
Associate Professor with tenure, Physics Department, University of Colorado, Boulder
August 1989–August 1992:
Associate Professor with tenure, Physics Department, University of Arizona, Tucson
August 1988–August 1989:
Associate Professor, Physics Department, The Florida State University
March 1985–August 1988:
Assistant Research Scientist, Supercomputer Computations Research Institute, The Florida State University
July 1983–Jan. 1984:
Visiting Fellow at CERN, Geneva

HONORS AND AWARDS

Department of Energy Outstanding Junior Investigator, 1989
NSF Faculty Awards for Women Scientist and Engineers, 1991-1996
Elected Fellow of the American Physical Society, 2008
College Scholar Award, University of Colorado College of Arts and Sciencies, 2013
Japan Society for the Promotion of Science Fellowship, 2014

RESEARCH INTEREST

High energy particle physics, with emphasis on computational studies of non-perturbative field theories. Lattice gauge theory calculations in QCD and Beyond Standard Model theories

COLLABORATORS

(Last 48 months) D. Schaich (Syracuse University), S. Schaefer (CERN), G. Fleming (Yale), E. Neil (University of Colorado)

ADVISOR

P. Hrasko (retired)

PEOPLE ADVISED OR SPONSORED

C. Nieter (Colorado U.), F. Perez (Colorado U.), R. Hoffmann (Munich, private industry), S. Schaefer (CERN), D. Schaich (Syracuse University), Y. Liu (University of Colorado), A. Cheng (University of Colorado) G. Petropoulos (University of Colorado)

SELECTED PUBLICATIONS

"Nonperturbative beta function of twelve-flavor SU(3) gauge theory"
A. Hasenfratz and D. Schaich.
arXiv:1610.10004 [hep-lat]

"Large scale separation and resonances within LHC range from a prototype BSM model"
A. Hasenfratz, C. Rebbi and O. Witzel.
arXiv:1609.01401 [hep-ph]
EDINBURGH-2016-15

"Strongly interacting dynamics and the search for new physics at the LHC"
T. Appelquist *et al.*. arXiv:1601.04027 [hep-lat]

"Finite-temperature study of eight-flavor SU(3) gauge theory"
D. Schaich *et al.* [LSD Collaboration]. arXiv:1506.08791 [hep-lat]

"Nonperturbative beta function of eight-flavor SU(3) gauge theory"
A. Hasenfratz, D. Schaich and A. Veernala. arXiv:1410.5886 [hep-lat]

"Improving the continuum limit of gradient flow step scaling"
A. Cheng, A. Hasenfratz, Y. Liu, G. Petropoulos and D. Schaich.
arXiv:1404.0984 [hep-lat]
10.1007/JHEP05(2014)137
JHEP **1405**, 137 (2014)

"Finite size scaling of conformal theories in the presence of a near-marginal operator"
A. Cheng, A. Hasenfratz, Y. Liu, G. Petropoulos and D. Schaich. arXiv:1401.0195 [hep-lat]
10.1103/PhysRevD.90.014509
Phys. Rev. D **90**, no. 1, 014509 (2014)

"Hypercubic smeared links for dynamical fermions"
A. Hasenfratz, R. Hoffmann and S. Schaefer.
JHEP **0705**, 029 (2007)