Biographical Sketches

Alexei Bazavov

Assistant Professor

Michigan State University

Education and Training

Kiev State University, Kiev, Ukraine	Physics	B.S.	1992-1997
Florida State University, Tallahassee, FL	Physics	M.S.	2003-2005
Florida State University, Tallahassee, FL	Physics	Ph.D.	2003-2007

Research and Professional Experience

Assistant Professor	Michigan State University	2016 – present
Research Associate	Indiana University	2016
Research Associate	University of Iowa and University of California, Riverside	2013 – 2016
Research Associate	Brookhaven National Laboratory	2010 – 2013
Research Associate	University of Arizona	2007 – 2010
Junior Research Fellow	Bogolyubov Institute for Theoretical Physics, Kiev, Ukraine	1997 – 2002

Publications

88 total refereed publications; h-index = 35 (Google Scholar)

10 selected publications relevant to the present proposal:

1. Cloët, Ian C., Dietrich, Matthew R., Arrington, John, Bazavov, Alexei, Bishof, Michael, Freese, Adam, Gorshkov, Alexey V., Grassellino, Anna, Hafidi, Kawtar, Jacob, Zubin, McGuigan, Michael, Meurice, Yannick, Meziani, Zein-Eddine, Mueller, Peter, Muschik, Christine, Osborn, James, Otten, Matthew, Petreczky, Peter, Polakovic, Tomas, Poon, Alan, Pooser, Raphael, Roggero, Alessandro, Saffman, Mark, VanDevender, Brent, Zhang, Jiehang, Zohar, Erez, *Opportunities for Nuclear Physics & Quantum Information Science*, arXiv:1903.05453
2. Alexei Bazavov, Frithjof Karsch, Swagato Mukherjee, Peter Petreczky, *Hot-dense Lattice QCD: USQCD whitepaper 2018*, arXiv:1904.09951
3. Bazavov, A., Ding, H.-T., Hegde, P., Kaczmarek, O., Karsch, F., Karthik, N., Laermann, E., Lahiri, Anirban, Larsen, R., Li, S.-T., Mukherjee, Swagato, Ohno, H., Petreczky, P.,

Sandmeyer, H., Schmidt, C., Sharma, S., Steinbrecher, P., *Chiral crossover in QCD at zero and non-zero chemical potentials*, arXiv:1812.08235, accepted to Physics Letters B

4. Bazavov, Alexei, Meurice, Yannick, Tsai, Shan-Wen, Unmuth-Yockey, Judah, Zhang, Jin, *Gauge-invariant implementation of the Abelian Higgs model on optical lattices*, Phys.Rev. D92 (2015) no.7, 076003, arXiv:1503.08354
5. Bazavov, Alexei, Karsch, Frithjof, Maezawa, Yu, Mukherjee, Swagato, Petreczky, Peter, *In-medium modifications of open and hidden strange-charm mesons from spatial correlation functions*, Phys.Rev. D91 (2015) no.5, 054503, arXiv:1411.3018

Synergistic Activities

1. Referee for Phys. Rev. A, B, C, D, E, Letters, Physics Letters B, Nuclear Physics A
2. Organizer of International Sympozium on Lattice Field Theory, 2018; ECT* workshop on heavy-ion physics, 2017; Extreme QCD, 2012; Workshop on Thermal Photons and Dileptons, 2011

Identification of Potential Conflicts of Interest or Bias in Selection of Reviewers

Collaborators and Co-editors: Bailey, Jon (Seoul University); Bernard, Claude (Washington University); Bhattacharya, Tanmoy (Los Alamos National Laboratory); Bouchard, Chris (University of Glasgow); Brambilla, Nora (Technical University Munich); Brown, Nathan (Washington University); Burnier, Yannis (University of Lausanne); Christ, Norman (Columbia University); DeTar, Carleton (University of Utah); Ding, Heng-Tong (Central China Normal University); Du, Daping (Syracuse University); El-Khadra, Aida (University of Illinois); Freeland, Elizabeth (School of Art Institute of Chicago); Gamiz, Elvira (University of Granada); Gottlieb, Steven (Indiana University); Gupta, Rajan (Los Alamos National Laboratory); Heller, Urs (American Physical Society); Hegde, Prasad (Central China Normal University); Hetrick, Jim (University of the Pacific); Jung, Chulwoo (Brookhaven National Laboratory); Kaczmarek, Olaf (Bielefeld University); Karsch, Frithjof (Brookhaven National Laboratory); Komijani, Javad (Technical University Munich); Kronfeld, Andreas (Fermi National Laboratory); Laermann, Edwin (Bielefeld University); Laiho, Jack (Syracuse University); Levkova, Ludmila (NAUTO); Maezawa, Yu (Kyoto University); Mackenzie, Paul (Fermi National Laboratory); Mawhinney, Robert (Columbia University); Meurice, Yannick (University of Iowa); Monahan, Chris (Rutgers University); Mukherjee, Swagato (Brookhaven National Laboratory); Neil, Ethan (Colorado University); Ohno, Hiroshi (University of Tsukuba); Osborn, James (Argonne National Laboratory); Petreczky, Peter (Brookhaven National Laboratory); Primer, Tom (University of Arizona); Schmidt, Christian (Bielefeld University); Schroeder, Chris (Lawrence Livermore National Laboratory); Sharma, Sayantan (Brookhaven National Laboratory); Simone, Jim (Fermi National Laboratory); Soltz, Ron (Lawrence Livermore National Laboratory); Soeldner, Wolfgang (Regensburg University); Sugar, Robert (University of California, Santa Barbara); Toussaint, Doug (University of

Arizona); Tsai, Shan-Wen (University of California, Riverside); Unmuth-Yockey, Judah (University of Iowa); Vairo, Antonio (Technical University Munich); Vranas, Pavlos (Lawrence Livermore National Laboratory); Wagner, Matthias (NVIDIA);Van de Water, Ruth (Fermi National Laboratory); Weber, Johannes (Technical University Munich); Zhou, Ran (Fermi National Laboratory);

Graduate and Postdoctoral Advisors and Advisees: Berg, Bernd (Florida State University; Ph.D. adviser); Toussaint, Doug (University of Arizona); Karsch, Frithjof (Brookhaven National Laboratory); Meurice, Yannick (University of Iowa); Tsai, Shan-Wen (University of California, Riverside); Gottlieb, Steven (Indiana University); Chuna, Thomas (Michigan State University, Ph.D. student); Hostetler, Leon (Michigan State University, Ph.D. student); Weber, Johannes (Michigan State University, postdoctoral associate)