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EXAMPLE FOR NSF BIOSKETCH

Paul Smith

a. Professional Preparation. *Listed in chronological order*

Institution	Major	Degree	Year
University of California, Irvine, CA	Physics	B.S.	1978
Harvard University, Cambridge, MA	Physics	M.A.	1980
California Institute of Technology	Physics	Ph.D.	1984

b. Appointments. *Listed in reverse chronological order*

2000-Present	Professor, Department of Physics, Tufts University, Medford, MA
1999-2000	Visiting Scientist, Department of Molecular Physics, MIT, Cambridge, MA
1998-1999	Research Associate, Pennsylvania State University, PN
1994-1998	Associate Professor, Department of Physics, Tufts University, Medford, MA
1992-1996	Assistant Professor, Department of Physics, Tufts University, Medford, MA
1990-1992	Research Fellow, Laboratory of Molecular Biophysics, Department of Crystallography, Birkbeck College, London

c. Products. *Each publication, data set, software, patent, or copyright identified must include the names of all authors (in the same sequence in which they appear in the product), the article and journal title, book title, volume number, page numbers, and year of publication. If the document is available electronically, the website address also should be identified.*

Up to 5 products most closely related to the proposed project.

(i) PRODUCTS MOST CLOSELY RELATED

- [1] Jones, VL, Walker, LM. Description of a particle with arbitrary mass and spin, Nuclear Physics, 2005 29, 61.
- [2] Lindemayer, JC, Jones, VL. Photopion p-wave multipoles near threshold from $^{12}\text{C}(\gamma, \pi^0)$ and $^1\text{H}(\gamma, \pi^0)$. Phys Rev C Nucl Phys. 2004 50: 2979-2994.
- [3] Jones VL, Chao MK, Yoshimoto M, Murasaki S. Photopion production in ^3H and ^3He . Phys Rev C Nucl Phys. 2003 49:1927-1939.
- [4] Jones, VL, Cosner D, Bernholdt C, Wright LE. Photopion cross sections and mass 14 structures. Phys Rev C Nucl Phys. 2003 ;45:230-232.
- [5] Lindemayer, JC, Jones VL. $0(+)-0(+)$ transition in charged photopion reactions. Phys Rev C Nucl Phys. 2002 Jun;43:2742-2746.

Up to 5 other significant products, whether or not related to the proposed project.

(ii) OTHER SIGNIFICANT PRODUCTS

- [1] Jones, VL, Schneider, PR. Wave equations for particles with high spin. Phys. Rev. 2004 62: 41.
- [2] Basile, TC, Jones VL, Lindemayer, JC, Schneider, PR. Temperature-dependent orbital degree of freedom of a bilayer manganite by magnetic Compton scattering. Phys Rev Lett. 2004 Nov 12;93(20):207206
- [3] Jones, VL, Schneider, PR, Kent, TK. Symmetric spinor theory for any spin. Phys. Rev. 2003 60:107.
- [4] Thames, DL, Jones VL. Spin correlations in the photoproduction of vector mesons, Phys. Rev. 2003 60: 59.
- [5] Cosner D, Jones, VL, Wright LE. Vector boson elastic scattering and Compton scattering. Int. J. Theor. Phys. 18, 25.

d. Synergistic activities. *Please enter up to five activities which relate to the proposal or which reflect demonstrated skills, assets, and inroads to the program activities being suggested by the proposal.*

1. For many years I have been the advisor (including doctoral advisor) to graduate students and Physics majors and have served on the graduate committee and the university Educational Policy Committee as well as the Programs and Policy Committee of the Graduate School of Arts and Sciences. I serve on the Neubauer Faculty Advisory Board, an assembly of faculty who advise a group of students who have been given merit based research support upon acceptance to Tufts. [See <http://ase.tufts.edu/dean-arts-sciences/focus-neubauer-scholars.htm> for more information]
2. I have collaborated with an undergraduate student (a sophomore when we started) on a research project in pure Physics that was published as a joint paper, and I have been a senior thesis reader, coadvisor and supervisor. I have given talks in the department colloquium, which I have organized for more than a decade. I use my research results to motivate students at the undergraduate level to turn to Physics for research or as teachers and have been particularly successful in recruiting female students. I have successfully encouraged students to participate in regional and national meetings as guests and presenters. I often teach a graduate course in spin and the text I coauthored for this ("Name of publication) was nominated for the xxx prize of the American Physics Society and is viewed as the "bible" on the subject. Although written as a pure mathematics book, it is widely used even outside of physics by engineers as well. More recently I coauthored a text for an undergraduate course in vector mesons with applications.