**This document may be only two pages long (per investigator). Use one of the following typefaces: a. Arial, Courier New, or Palatino Linotype at a font size of 10 points or larger; Times New Roman at a font size of 11 points or larger; or Computer Modern family of fonts at a font size of 11 points or larger; b. No more than 6 lines of text within a vertical space of 1 inch; and c. Margins, in all directions, must be at least an inch. Any instructions in blue text must be removed before upload. A blank template begins on page 3.**

***Template for NSF Biosketch***

**Vlad L. Jones**

**Professional Preparation** Listed in chronological order

**Institution Location Major Degree Year**

University of California Irvine, CA Physics B.S. 1978

Harvard University Cambridge, MA Physics M.A. 1980

California Institute of Technology Pasadena, CA Physics Ph.D. 1984

**Appointments** Listed in reverse chronological order

1992-present Professor, Department of Physics, Tufts University, Medford, MA

1997-1999 Visiting Scientist, Department of Molecular Physics, MIT, Cambridge, MA

1989-1995 Research Associate, Pennsylvania State University, PN

1987-1992 Associate Professor, Department of Physics, Tufts University, Medford, MA

1985-1987 Assistant Professor, Department of Physics, Tufts University, Medford, MA

1984-1985 Research Fellow, Laboratory of Molecular Biophysics, Department of Crystallography, Birkbeck College, London

**Products**. A list of: (i) up to five products most closely related to the proposed project; and (ii) up to five other significant products, whether or not related to the proposed project. Acceptable products must be citable and accessible including but not limited to publications, data sets, software, patents, and copyrights. Unacceptable products are unpublished documents not yet submitted for publication, invited lectures, and additional lists of products. Only the list of 10 will be used in the review of the proposal.

Each product must include full citation information including (where applicable and practicable) names of all authors, date of publication or release, title, title of enclosing work such as journal or book, volume, issue, pages, website and Uniform Resource Locator (URL) or other Persistent Identifier.

***If only publications are included, the heading “Publications” may be used for this section of the Biographical Sketch.***

A list of **up to 5** products most closely related to the proposed project.

**FIVE 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 12C (gamma, pi 0) and 1H (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.

A list of **up to 5** other significant products, whether or not related to the proposed project.

**FIVE FURTHER 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 photo production 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.

**Synergistic Activities** A list of **up to five** examples that demonstrate the broader impact of the individual’s professional and scholarly activities that focuses on the integration and transfer of knowledge as well as its creation. Examples could include, among others: innovations in teaching and training (e.g., development of curricular materials and pedagogical methods); contributions to the science of learning; development and/or refinement of research tools; computation methodologies, and algorithms for problem-solving; development of databases to support research and education; broadening the participation of groups underrepresented in science, mathematics, engineering and technology; and service to the scientific and engineering community outside of the individual’s immediate organization.

**You may list up to a maximum of five specific examples. You may not list multiple activities under one specific activity.**

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.

Insert Name Here

**Professional Preparation**

Institution Location Major Degree Year

**Appointments**

**Products**

Five Products Most Closely Related

1. Insert
2. Insert
3. Insert
4. Insert
5. Insert

Five Further Products

1. Insert
2. Insert
3. Insert
4. Insert
5. Insert

**Synergistic Activities**

1. Insert
2. Insert
3. Insert
4. Insert
5. Insert