

## LAWRENCE R. SULAK, Myers Distinguished Professor of Physics, Boston University

### Education:

- 1970 Ph.D. Physics, Princeton University, Advisor: Professor Val L. Fitch, Nobel Laureate (1980),  
Thesis: "A Precise Measurement of the  $K_1^0 - K_2^0$  Mass Difference," the first at 1% level  
1966 B.S. Physics, Carnegie Mellon University, Advisor: Professor Lincoln Wolfenstein  
Diploma citation: "Highest academic record in the class of 1966."

### Professional, Research and Service Positions:

- 2013- CMS Hadron Calorimeter Advisory Board  
2013-2015 Chairman, US CMS Hadron Calorimeter Collaboration Board  
2013-2015 CMS Hadron Calorimeter Radiation Damage Task Force  
2013-2014 Search Committee for Fermilab Director, Fermilab Research Alliance  
2011-2014 Board of Directors, Fermilab Research Alliance/Universities Research Association  
2011-2013 CMS Upgrade Steering Committee  
2009- Founding Director, Undergraduate Physics Internship (8 month) Program at CERN  
2009-2011 CMS Hadron Calorimeter Upgrade Task Force and CMS Upgrade Steering Committee  
2007-2008 External Advisory Board, "Physics Frontier Center" Proposal, Institute for Advanced Study, Princeton NJ  
2006- Board of Directors, University of Quito (USFQ), Ecuador; initiator of BU/CMS/CERN Program  
2003 Institut de Français, Villefranche-sur-Mer, France, Diplôme, langue Française  
2001- Fellow, University Professors Program, Boston University  
1986 Initiator, U.S. Department of Energy Grant at Boston University: PI or Co-PI for 1) Proton Decay and Neutrino Oscillations (IMB, MACRO, Antares), 2) Muon g-2 Experiment at BNL, 3) CMS Forward Cherenkov Calorimeter at the LHC  
1985-2005 Chairman & Professor of Physics, Boston University; built Physics Department buildings and facilities to rank among private US institutions: In 2003, 1st in citations/paper and 9th or better in # of refereed papers, in # of citations, and in external funding (statistics from Spires, AIP, and the ISI)  
1979-1981 Harvard University, Visiting Professor of Physics, Cambridge, MA  
1979-1984 Tenured Associate Professor of Physics, University of Michigan, Ann Arbor  
1978-1984 Founder of IMB Proton Decay DOE Task at Michigan, transferred from Harvard  
1975-1979 Harvard University, Associate Professor of Physics, Cambridge, MA  
1974-2005 Guest Associate Physicist, Brookhaven National Laboratory, Upton, NY  
1971-1976 Visiting Physicist, Fermi National Accelerator Laboratory, Batavia, IL  
1971-1975 Harvard University, Assistant Professor of Physics, Cambridge, MA  
1970-1971 Chargé de Recherche, Département de Physique Nucléaire et Corpusculaire, Université de Genève

### Honors and Awards:

- 2011 All Ecuador National Lecturer, convocation sponsored by President of University of San Francisco  
2009-2011 Attaché scientifique & Distinguished Visiting Scientist, CERN, Geneva; delegations to Tunisia & Ecuador  
2006 Most Distinguished Alumnus Award, Carnegie Mellon; delivered annual "All University Lecture"  
2006 Chairman *Emeritus*, Boston University Physics Department  
2005 City of Marseille Research Prize for Seminal Contributions to Antares Neutrino Observatory  
2003-2005 Guggenheim Foundation Fellow, to launch the Antares Neutrino Observatory  
2003-2005 Distinguished Visiting Scientist, University of the Mediterranean, Center for Particle Physics of Marseille  
2001- Fellow, University Professors Program, Boston University  
1998 "Greatest Science Achievements of 1998: Discovery of neutrino mass," Popular Science Magazine  
1998 Asahi Prize, "Discovery of the Finite Mass of Neutrinos," shared with Super-K collaborators  
1993-1994 Distinguished Visiting Scientist, Centre d'Etude Atomique, Saclay, France  
1992 "Faces & Names to Watch..." Boston Magazine  
1992 Who's Who in Science and Engineering  
1990 Myers Distinguished Professor, Boston University, endowed chair  
1989 Bruno Rossi Prize, American Astronomical Society, "Discovery of Neutrinos from Supernova 1987a"  
1984 Fellow, American Physical Society  
1984 Outstanding Young Scientist Award, "America's 100 Brightest Scientists," Science Digest  
1984 Research Honorary Society, University of Michigan  
1966 "Citizen of the Year," Wellsburg WV  
1966-1970 National Science Foundation Fellow, Princeton University  
1966 Omicron Delta Kappa, National Leadership Honor Society  
1962-1966 Alfred Noyes Smith Scholar, Carnegie Mellon University  
1962 Outstanding Freshman Physicist of the Year Award, Carnegie Mellon University

### Publications:

Before papers from CMS at the LHC, LRS played a major role in 22 renown (500+ cites in inSPIRE), 15 famous (250-499 cites), 52 very well known (100-249), 58 well-known (50-99), and 203 known papers (10-49 cites) on research with neutrinos at Fermilab and Brookhaven, with muon g-2 at BNL, and with ring-imaging Cherenkov calorimetry, proton decay and neutrino oscillations in IMB, Macro, Super-K, and Antares. Since 2011, LRS's papers are on the quartz fiber calorimetry and the Higgs boson discovery.