Presentations

Research Papers Presented at Professional Meetings

*Indicates Invited Long Paper

Kurepa, M. V., L. Vušković, and S. Cvejanović, “Differential Cross Sections of Elastically Scattered Electrons on Argon Atom,” III National Atomic and Molecular Physics Conference, York, England, 1971.

*Vušković, L., and R. Joksimović, “Handling a Scientific Meeting with the Use of Computer,” INFORMATIKA 73, Bled, Yugoslavia, 1973.

*Vušković, L., “Electron Scattering by Ground and Excited State Sodium Atom,” Symposium in Honor of Benjamin Bederson, New York University, April 25, 1992.

Shi, Z., C. H. Ying, L. Vušković, and B. Bederson, “Elastic Electron Scattering by Laser excited Sodium,” 22nd Annual Meeting, Division of Atomic, Molecular and Optical Physics, Chicago, Illinois, May 20 22, 1992. Postdeadline paper.

Panajotović, R., D. Filipović, B. Marinković, V. Pejčev, M. Kurepa, and L. Vušković, “Critical Minima in Elastic Electron Scattering by Argon,” 27th Annual Meeting, Division of Atomic, Molecular and Optical Physics, Washington, DC, April 18 21, 1997. Postdeadline paper.

Wei, H., Shi, Z., Y. Wang, and L. Vušković, “Azimuthal Asymmetry of Polarized 3P Sodium in Small Angle Elastic Electron Scattering,” 27th Annual Meeting, Division of Atomic, Molecular and Optical Physics, Washington, DC, April 18 21, 1997. Postdeadline paper.

*Vušković, L. and S. Popović, “Shock Wave Structure in Flow Discharge,” Weakly Ionized Gases Workshop, USAF Academy, Colorado, 9 13 June (1997).

M. Rašković, J. Upadhyay, S. Popović, L. Vušković, L. Phillips, and A-M. Valente-Feliciano, “Plasma etching of niobium in Ar/Cl2 microwave discharge,” SRF Materials Workshop, Michigan State University, East Lansing, October 29-31, 2008.

M. Rašković, J. Upadhyay, S. Popović, L. Vušković, L. Phillips, and A-M. Valente-Feliciano, “High etching rates of niobium in Ar/Cl2 microwave discharge, ” 3rd International Workshop on Thin films and New Ideas for pushing the limits of RF Superconductivity, Thomas Jefferson National Accelerator Facility, Newport News, July 22-25, 2008.

Invited Presentations at Other Institutions

1973 University of Münster, Münster, W. Germany
“The Effective Geometrical Factor in Differential Cross Section Measurements”
1977 Caltech, Jet Propulsion Laboratory, Pasadena, California
“The Polarization of Electrons Elastically Scattered from Xenon”
1977 University of Washington, Seattle, Washington
“Test of Theory by Absolute Cross Section Measurements”
1979 Argonne National Laboratory, Argonne, Illinois

"Electron Scattering by Highly Polar Molecules"

1980 Belgrade University, Belgrade, Yugoslavia
"Determination of Momentum Transfer Cross Sections"

1981 Zagreb University, Zagreb, Yugoslavia
"Electron Scattering by Alkali atoms"

1982 New York University, New York, New York
"Recoiled Atom and Scattered Electron in Collision Experiments"

1983 Leopold Franzens University, Innsbruck, Austria
"Electron Impact Cross Sections for 22P Excitation of Lithium"

1984 Technical University, Gdansk, Poland
"Differential Cross Sections for Inelastic Electron Scattering by N2O"

1985 Los Alamos National Laboratory, Los Alamos, New Mexico
"Elastic and Inelastic Electron Scattering by Cadmium"

1986 University of Oklahoma, Norman, Oklahoma
"Low Energy Electron Scattering by 32P3/2 Sodium"

1988 The City College, New York, New York
"Electron Scattering by Alkali halide Molecules"

1989 Lehigh University, Bethlehem, Pennsylvania
"Superelastic 3P→3S Electron Scattering by Laser Excited Na"

1990 Institute of Physics, Belgrade, Yugoslavia
"Inelastc 3S→3P and Superelastic 3P→3S Scattering"

1991 University of Connecticut, Storrs, Connecticut
"Electron Metal atom Scattering"

1992 University of Oklahoma, Norman, Oklahoma
"Recoil Atom Technique for Absolute Electron Scattering Measurements"

1991 University of California at Riverside, Riverside, California
"Electron Scattering by Excited atom"

1991 Polytechnic University, New York, New York
"Metal atom Negative ion Formation"

1992 Stevens Institute of Technology, Hoboken, New Jersy
"Collision Physics with Velocity Controlled Atomic Beam"

1993 Institute of Physics, Belgrade, Yugoslavia
"Cold Collisions"

1993 Society of Physics Students, New York University, New York
"Frontier Research in Atomic Physics since the Advent of Lasers"

1994 Hofstra University, Heampstead, New York
"Velocity Controlled Atomic Beam"

1994 New York Institute of Technology, New York, New York
"Bright Atomic Beam"

1995 Bielefeld University, Bielefeld, Germany
"Electron Scattering by Laser excited Atoms"

1996 Institute of Physics, Belgrade, Yugoslavia
"Atom Optics"

1997 Norfolk Round Table Society, Norfolk, VA
"Light and Color and Nature and Art"

1998 Florida A&M University, Physics Department, Tallahassee, FL (January 23, 1998)
"Atomic Collision Processes in Weakly Ionized Gas"

1998 Institute for Low Temperature Plasmas, Greisfwald, Germany (May 5, 1998)
"Supersonic Motion in Weakly ionized Gas"

1998 Physics Institute of Ernst-Moritz-Arndt University, Greisfwald, Germany (May 6, 1998)
"Radio-Frequency Discharge for Oxygen Production from Martian Atmosphere"

1998 Physics Institute of Ernst-Moritz-Arndt University, Greisfwald, Germany (May 7, 1998)
"Proton Transfer Reactions in Collisions involving Molecular ions"

1998 Physics Department at Humboldt University, Berlin (May 8, 1998)
"Supersonic Motion in Weakly ionized Gas"

1998 Institute of Physics, University of Belgrade (May 16, 1998)
"Proton Transfer Reactions in Collisions involving Molecular ions"

1998 Department of Physics at Old Dominion University (October 30, 1998)
"The Excited Atom in Collision Physics"

1999 Department of Physics, William & Marry, Williamsburg (May 14, 1999)
"Electron Collision with Excited Atoms"

1999 Institute of Physics, University of Belgrade (November 16, 1999)
"In Situ Resource Utilization of Martian Atmosphere"

2000 NASA Langley Research Center (November 1, 2000)
"Gas Permeation through Solid Membranes"

2006 Electrical and Computer Engineering Dpt, Old Dominion U. (November 17, 2006)
"Atomic and Molecular Collision Processes in High Pressure Discharges"

2009 Institute of Physics, Belgrade, Serbia (December 26, 2009)
"Atomic Collision Physics: Before and Now"