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### **Professional Preparation**

University of Rochester	Physics	Ph.D. 1978
Quaid-i-Azam University, Pakistan	Physics	M.Sc. 1974

### **Appointments**

2010-present Munneryn-Heep Chair in Quantum Optics, Texas A&M University  
2004- present Professor, Department of Physics, Texas A&M University  
1992-2004 Professor, Department of Electronics, Quaid-i-Azam University, Pakistan  
1985-1992 Associate Professor, Department of Electronics, Quaid-i-Azam University  
1984-1985 Assistant Professor, Department of Electronics, Quaid-i-Azam University  
1980-1984 Res. Asstt. Professor, Department of Physics, University of New Mexico  
1979-1980 Research Associate, Optical Sciences Center, University of Arizona  
1978-1979 Research Associate, Department of Physics, University of Rochester  
1976-1978 Research Assistant, Department of Physics, University of Rochester  
1974-1976 Teaching Assistant, Department of Physics, University of Rochester

### **Honors and Awards:**

- Fellow, Pakistan Academy of Sciences (1995).
- Fellow, Optical Society of America (1988).
- Fellow, American Physical Society (2005)
- Humboldt Research Prize, Alexander von Humboldt Foundation, Germany (2007).
- Abdus Salam Prize for Physics (1986).

### **Five Related Recent Publications**

Q. Sun, M. Al-Amri, and M. S. Zubairy, "Reversing the weak measurement of an arbitrary field with finite photon number", *Phys. Rev. A* **80**, 033838 (2009).  
S. Qamar, J. Evers, and M. S. Zubairy, "Atom microscopy via two-photon spontaneous emission spectroscopy", *Phys. Rev. A* **79**, 043814 (2009).  
M. S. Zubairy, "Factoring numbers with waves", *Science* **316**, 554 (2007).  
Q. Sun, Y. V. Rostovtsev, J. P. Dowling, M. O. Scully, and M. S. Zubairy, "Optically controlled delays for broadband pulses", *Phys. Rev. A* **72**, 031802 (Rapid Communications) (2005).  
H. Xiong, M. O. Scully, and M. S. Zubairy, "Correlated spontaneous emission laser as an entanglement amplifier", *Phys. Rev. Lett.* **94**, 023902 (2005).

### **Five Other Significant Publications**

M. O. Scully and M. S. Zubairy, "Quantum Optics", (Cambridge University Press, 1997), 648 pp; second printing (1999), third printing (2001), fourth printing (2002), Chinese edition (2001), Russian translation (2003).

Y. Aharonov and M. S. Zubairy, "Time and the quantum: Erasing the past and impacting the future", *Science* **307**, 875 (2005).

M. Kiffner, J. Evers, and M. S. Zubairy, "Resonant interferometric lithography beyond the diffraction limit", *Phys. Rev. Lett.* **100**, 073602 (2008).

H. Nha and M. S. Zubairy, "Uncertainty relations as entanglement criteria for negative partial-transpose states", *Phys. Rev. Lett.* **101**, 130402 (2008).

H. Zheng, S.-Y. Zhu and M. S. Zubairy, "The quantum Zeno and the anti-Zeno effect: Without rotating wave approximation", *Phys. Rev. Lett.* **101**, 200404 (2008).

### **Synergistic Activities**

- Chair, SPIE Symposium on Fluctuations and Noise, Florence, Italy (May 2007).
- Co-Chair, SPIE Conference on Fluctuations and Noise in Photonics and Quantum Optics III, Austin (May 2005).
- Executive Editor, *Fluctuation and Noise Letters* (June 2004-present).
- Co-Director, Research for Undergraduate Program, Texas A&M University (June-August 2003).
- Associate Director, Institute for Quantum Studies, Texas A&M University, TX (Aug. 2001-present)

### **Collaborators & Other Affiliations**

J. Bergou (Hunter College of CUNY), B.-G. Englert (Vienna), P. Hemmer (Texas A&M), V. Kocharovsky (Texas A&M), G. Rempe (MPQ, Germany), W. Schleich (Ulm, Germany), M. O. Scully (Texas A&M), S. Shahriar (Northwestern), H. Walther (MPQ, Germany), S.-Y. Zhu (HKBU, Hong Kong)

### **Graduate Advisor during Ph.D.:**

Emil Wolf, University of Rochester

### **Ph.D. Graduate Students Advisees ( 21. total):**

K. Zaheer, S. Mahmood, N. A. Ansari, I. Ashraf, M. Zahid, Shahid Qamar, A. A. Rizvi, J. Anwar, R. A. Rizvi, M. Majeed, A. H. Toor, A. A. Khan, Sajid Qamar, M. Ikram, T. Azim, F. Ghaffoor, M. Ahmed, A. H. Khosa, T. Di, H. Xiong, J. Chang, Q. Sun