TEXAS SOUTHERN UNIVERSITY

COLLEGE OF SCIENCE AND TECHNOLOGY

Name: Daniel Bessis

Department: Physics

Rank: Professor

Office: Trailer # 11, Office B

E-mail: bessisdi@tsu.edu

EDUCATION

1957 Engineer of "Ecole Nationale Superieure de l'Aeronautique", Paris

1961 M.A. Theoretical Physics, Orsay University, France

1965 Ph.D. Theoretical Physics, Sorbonne Paris (France)

COURSES TAUGHT

PHYS 101 Principles of Physical Science

PHYS 237 College Physics I

PHYS 238 College Physics II

PHYS 248 Mathematical Methods II

PHYS 272 Mechanics I

PHYS 333 Electricity and Magnetism I

RESEARCH INTERESTS

Mathematical Physics. Quantum Operators. Moment Problems with applications to physics and mathematics. Fractal analysis. Nonlinear systems. Inverse problems in quantum physics.

PUBLICATIONS (five most recent peer-reviewed)

- 1. D. Vrincenau., A. Z. Mseazne, D. Bessi, A. Temkin, "Exchange forces in dispersion relations investigated using Circuit Relations" Physical Review Letter 86, 3256-3259 (2001)
- 2. A. Cabo, C. R. Handy, D. Bessis, "On the uniqueness of the surface sources of evoked potentials" Physical Review E 64, 041901 (October 2001).
- 3. Msezane A.Z., Felfli Z., Bessis D., "Angle-optimized energy-variable method for electron differential cross-section measurements" Physical Review A Volume 65, 050701(R) Rapid Communications, 2002
- 4. L. Perotti and D. Bessis, Realistic semiconductor heterostructures design using inverse scattering Microelectronics Journal, 34, 1037-1041, (2003)
- 5. D. Bessis and L. Perotti, "Universal analytic properties of noise: introducing the J-matrix formalism", J. Phys. A: Math. Theor. 42, No. 36, 365202 (2009).