

Muhammad Ali Aboud Al-Solami

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- **Date of Birth:** 1/7/1374 Hijri.

Education

- Ph.D - South Carolina State University, USA, (1987)
- M.Sc - South Carolina State University, USA, (1982)
- B.S - King Fahd University of Petroleum and Minerals, KSA (1977)

Work Experience

- **Graduate Assistant, KFUPM, Dhahran** - (1977 – 1979)
- **Lecturer, South Carolina State University, USA** (1982 -1986)
- **Researcher, LASALMOS Laboratory** (1986 – 1987)
- **Assistan Professor, Physics Dept, KFUPM** (1987 – to date)

Research Interests

- Nuclear Physics and Intermidate energy (Scattering of Mesons with Nucliee).
- Perturbation theory in quantum mechanics
- Superconductivity.

Training & Conferences

- Attnded number of Training Programs, workshops and seminars as well as number of regional and international conferences.

Teaching Experience

Taught many courses including Lab and recitations for more than 22 years, since I joined in KFUPM as faculty member in 1987, the courses includes:

- Physics 101 (Particle kinematics and dynamics; conservation of energy and linear momentum; rotational kinematics; rigid body dynamics; conservation of angular momentum; simple harmonic motion; the static and dynamics of fluids)
- Physics 102 (Waves, Thermodynamics, Elect.&Magnetism)
- Physics 133 (same as Phys 101)
- Physics 201 (Elect. & Magnetism, Optics, Nuclear Physics, etc.)
- Physics 305 (Classical Mechanics, Dynamics, etc.)
- PYP 001 (Introduction to Basics Physics)
- Graudate & underduate courses offered in the Physics Dept.

Membership

Member of many committees at KFUPM

Member of Sigma pi Sigma

Publications

1. Harry A. Mavromatis and Mohammad A. Al-Solami, "Perturbative Treatment of coulomb Type Potential in the Presence of a Background Harmonic Oscillator Field" *Arabian Journal of Science and Engineering*, Volume 17, Number 4B (1992).
2. C.S. Whisnant , M. Alsolami ,etal. "Coupled channels analysis of positive pion inelastic scattering from ^{28}Si at 50 MeV" *Physical Review C*, Volume 39, p1935, (1989).
3. D. H. Wright , M. Alsolami, etal "Indication of pionic-atom anomalies in pion-nucleus elastic scattering", *Physical Review C*, Volume 35 , No. 6, p2258 (1987).
4. B.G. Ritchie, M.Al-Solami, etal "50 MeV pion inelastic scattering to the 1^+ doublet in ^{12}C " *Physical Review C*, Volume 37 , No. 3, p1347 (1988).
5. General perturbative treatment of general radial potential of the form applied to harmonic oscillator and Hydrogen atom (Under process).