

Zahra Ali mala Issa



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Education

Msc in Physics, University of Tabriz 2006-2009

BSc in Solid state Physics, University of Polytechnic of Tehran(Amirkabir university). 1999 - 2004

Thesis Title: Solvable pairing models

Supervisors: Professor Mohammad Ali Jafarizadeh and Dr Naser. fooladi

Brief Synopsis of Research

we studied Lipkin-Meshkov-Glick(LMG) and Richardson models that are based on pairing. we briefly review the spectral method based on orthogonal polynomials recurrences and jacobi matrix. using this method, the LMG model Hamiltonian are solved numerically, without putting any restriction on the parameters specifying the strengths of the interactions include in the LMG Hamiltonian. Moreover, using spectral method, we have studied the shape-phase transition for one example nuclei numerically. many remarkable crossings of different levels and occurs at stronger interaction regimes and suggests the existence of a new phase transition.

Computing Skills

Programming languages: MATLAB, C,C++,python, PASCAL

Applications: Miktex- Winedit-Gs view , Origin50, Math Type,Microsoft Office

Languages:

Kurdish –native; Persian- native ; English – fluent; Arabic -- intermediate; Turkish – basic.

Conferences, Presentations and Courses Attended

. Iranian Nuclear conference at Gorgan university; March 14, 2008 to March 13, 2008,

. Iranian conference on physics 2009 24-27 Agust.Isfahan university of technology

. Iranian physics conference at Polytechnic university of Tehran

Publications/Conference Papers

. Z.alipour ,M.A.Jafarizadeh,N.Fooladi,R.Sofiani. International Jou1rnal of Modern Physics E, Vol. 20, No. 6 (2011)

. Z.Alipour,M.A.Jafarizadeh ,journal of Nuclear conference in Gorgan university

. Z.Alipour,M.A.Jafarizadeh ,journal of Iranian physics conference in Esfahan university of technology

. Z.Alipour,M.A.Jafarizadeh ,journal of Iranian physics conference in Zahedan university

HONORS

Ranked 900

in a nationwide BSC. Entranc Exam in physics for state universities, held among approximately 1,000,000 undergraduate math -physics students, Iran (2000)

Ranked 390

in the Master of Science National Entrance Exam in physics for state universities, held among approximately 500,000 undergraduate students, Iran (2006)

EMPLOYMENT HISTORY (BEGIN WITH MOST RECENT EMPLOYMENT)

| FROM | ADDRESS | POSITION HELD |
|--|--------------------------|--|
| 2009 | Abhar,Iran | Lecturer,Lab supervisor |
| 2009 | Abhar,Iran | Lecturer,Lab supervisor |
| 2009 | Abhar,Iran | Lecturer,Lab supervisor |
| 2012 | Khorramdare ,Iran | Lecturer,Lab supervisor |
| 2012 | Khorramdare,Iran | Lecturer,Lab supervisor |
| 2015 | Hawler,Iraq | Assistant lecturer,Lab supervisor |
| EMPLOYER | | TOUGHT SUBJECTS |
| Abhar Azad university,Iran | | Electricity and Magnetism(theory and lab)- Mechanical Physics(theory and lab |
| Abhar payame nooruniversity,Iran | | Electricity and Magnetism(theory and lab)- Mechanical Physics(theory and lab |
| Elmikarbordi of Abharuniversity,Iran | | Electricity and Magnetism(theory and lab)- Mechanical Physics(theory and lab |
| Elmikarbordi of Iran. Khorramdare university,Iran | | Electricity and Magnetism(theory and lab)- Mechanical Physics(theory and lab |
| Khorramdare Payame Noor university,Iran | | Electricity and Magnetism(theory and lab)- Mechanical Physics(theory and lab |
| Salahaddin university,Iraq | | Estatistical physics- Matlab Programing – Electricity and Magnetism(theory and lab)- Advance Electricity and Magnetism(theory and lab |