

Curriculum Vitae

1. Personal Information:

Name: Ahmad **Surname:** Ramazani-Moghaddam
Date of Birth: 1, Sep, 1969 **Sex:** Male **Nationality:** Iranian
Postal Address: Faculty of Physics, University of Kashan, Kashan, IRAN.
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2. Education:

i) Name of Institution: University of Tehran,
Degree Title: BS (Physics)
Date of Attendance: Sep. 1988
Date of Award: Sep. 1992

ii) Name of Institution: Isfahan University of Technology
Degree Title: MS (Physics)
Date of Attendance: Sep. 1992
Date of Award: Jul. 1995
MS project title: Investigation of Damage in Iron and its Application in the First Wall of the Fusion Reactor

iii) Name of Institution: University of Groningen, The Netherlands
Degree Title: PhD (Physics)
Date of Attendance: Sep. 2005
Date of Award: Oct. 2009
PhD project title: Cross-section and analyzing-power measurements in three and four-nucleon scattering

3. Academic/work Experience:

A) I am a member of teaching staff at faculty of Physics in the Kashan University.
Teaching the following courses:
1- Mechanics
2- Electricity and Magnetism
3- Modern physics
4- General Physics
5- Modern Physics Laboratory.
6- Nuclear physics I and II.
7- Nuclear physics Laboratory.

- 8- Advanced Nuclear physics I
- 9 - Advanced Nuclear physics II
- 10- Radiation detection and measurement
- 11- Nuclear reactors
- 12- Subatomic physics

Publications:

1. **Elastic proton-deuteron scattering at intermediate energies**
A Ramazani-Moghaddam-Arani, HR Amir-Ahmadi, AD Bacher, CD Bailey, ...
Physical Review C 78 (1), 014006 (2008).
2. **Spin-isospin selectivity in three-nucleon forces**
H Mardanpour, HR Amir-Ahmadi, R Benard, A Biegun, M Eslami-Kalantari, ...
Physics Letters B 687 (2-3), 149-153 (2010).
3. **Vector analyzing powers of deuteron-proton elastic scattering and breakup at 130 MeV**
I Ciepał, E Stephan, A Biegun, K Bodek, A Deltuva, E Epelbaum, ...
Physical Review C 85 (1), 017001 (2012).
4. **Proton-deuteron break-up measurements with BINA at 135 MeV**
M Eslami-Kalantari, HR Amir-Ahmadi, A Biegun, I Gašparić, ...
Modern Physics Letters A 24 (11n13), 839-842 (2009).
5. **Vector analyzing powers of the deuteron-proton elastic scattering and breakup at 100 MeV**
E Stephan, A Biegun, K Bodek, I Ciepał, A Deltuva, M Eslami-Kalantari, ...
The European Physical Journal A 49 (3), 36 (2013).
6. **Three-body break-up in deuteron-deuteron scattering at 65 MeV/nucleon**
A Ramazani-Moghaddam-Arani, HR Amir-Ahmadi, AD Bacher, CD Bailey, ...
Physical Review C 83 (2), 024002 (2011).
7. **Investigation of the deuteron breakup on proton target in the forward angular region at 130 MeV**
I Ciepał, B Kłos, E Stephan, A Biegun, K Bodek, A Deltuva, E Epelbaum, ...
Few-Body Systems 56 (10), 665-690 (2015).
8. **Spin observables in the three-body break-up process near the quasifree limit in deuteron-deuteron scattering**
A Ramazani-Moghaddam-Arani, M Mahjour-Shafiei, HR Amir-Ahmadi, ...
Physics Letters B 725 (4-5), 282-286 (2013).
9. **Thermoluminescence kinetic analysis and dosimetry features of MgSO₄: Dy and MgSO₄: Cu nano-rods**
M Zahedifar, F Almasifard, E Sadeghi, MK Biroon, ...
Radiation Physics and Chemistry 125, 127-133 (2016).
10. **Investigations of few-nucleon system dynamics in medium energy domain**
I Ciepał, B Kłos, E Stephan, A Biegun, K Bodek, A Deltuva, E Epelbaum, ...
Few-body systems 54 (7-10), 1301-1305 (2013).
11. **Studies of the three-nucleon system dynamics in the deuteronproton breakup reaction**
I Ciepał, B Kłos, E Stephan, A Biegun, K Bodek, A Deltuva, E Epelbaum, ...
EPJ Web of Conferences 37, 09011 (2012).
12. **Pionic fusion in light-ion systems**
L Joulaeizadeh, I Gašparić, HR Amir-Ahmadi, J Bacelar, R Čaplar, ...
Physics Letters B 694 (4-5), 310-315 (2011).
13. **Measurements of scattering observables for the pd break-up reaction**
M Eslami-Kalantari, HR Amir-Ahmadi, A Biegun, I Gašparić, ...
EPJ Web of Conferences 3, 05010 (2010).

14. **Proton-deuteron elastic scattering at 135 MeV with BINA**
A Ramazani-Moghaddam-Arani, HR Amir-Ahmadi, A Biegun, ...
Few-Body Systems 44 (1-4), 27-29 (2008).
15. **A systematic study of 3NF effects in $p + d$ break-up with BINA at 190 MeV**
H Mardanpour, HR Amir-Ahmadi, R Benard, A Biegun, M Eslami-Kalantari, ...
Few-Body Systems 44 (1-4), 49-52 (2008).
16. **Thermoluminescence and photoluminescence properties of NaCl: Mn, NaCl: Cu nano-particles produced using co-precipitation and sono-chemistry methods**
M Mehrabi, M Zahedifar, Z Saeidi-Sogh, A Ramazani-Moghaddam-Arani, ...
Nuclear Instruments and Methods in Physics Research Section A: Accelerators Detectors and Associated Equipment 846,87-93 (2017).
17. **Coulomb force effects in deuteron-proton breakup reaction**
I Ciepał, B Kłos, A Kozela, E Stephan, S Kistryn, A Biegun, K Bodek, ...
Acta Physica Polonica Series B 46(3):4591 (2015).
18. **Cross Sections of the Deuteron-Proton Breakup at 130 MeV: A Probe of Three-Nucleon System Dynamics**
E Stephan, N Kalantar-Nayestanaki, A Biegun, K Bodek, I Ciepał, ...
Few-Body Systems 50 (1-4), 235-238 (2011).
19. **Pionic fusion in light-ion systems**
L Joulaeizadeh, I Gašparić, HR Amir-Ahmadi, J Bacelar, R Čaplar, ...
Physics Letters B 694 (4-5), 310-315 (2011).
20. **Proton-deuteron elastic scattering at 135 MeV with BINA**
A Ramazani-Moghaddam-Arani, HR Amir-Ahmadi, A Biegun, ...
Few-Body Systems 44 (1-4), 27-29 (2008).
21. **A systematic study of 3NF effects in $p + d$ break-up with BINA at 190 MeV**
H Mardanpour, HR Amir-Ahmadi, R Benard, A Biegun, M Eslami-Kalantari, ...
Few-Body Systems 44 (1-4), 49-52 (2008).
22. **Cross Sections of the Deuteron-Proton Breakup at 130 MeV: A Probe of Three-Nucleon System Dynamics**
E Stephan, N Kalantar-Nayestanaki, A Biegun, K Bodek, I Ciepał, ...
Few-Body Systems 50 (1-4), 235-238 (2011).
23. **Application of a single-beam gamma densitometer for void fraction measurement in a rectangular channel.**
RMR Nazififard M, Ramazani-Moghaddam A
Iranian Journal of Radiation Safety and Measurement 2 (3), 27-30 (2019).
24. **Measurement of hard X-Ray energy spectrum in Damavand Tokamak by bremsstrahlung spectrometer.**
SF Moazzemi-Ghamsari M, Ramazani-Moghaadam-Arani A, Kouhi A, Pourshahab B ...
Iranian Journal of Radiation Safety and Measurement 6 (1), 37-56 (2018).
25. **Determination of selenium content in Wheat of different regions of Kashan by Neutron Activation Analysis in the Miniature Neutron Source Reactor.**
A Torkiha M, Hashemi L, Rezvanifard M, shirini R
Iranian Journal of Radiation Safety and Measurement 5 (2), 1-6 (2017).
26. **Measurement of deuteron beam polarization before and after acceleration**
A. Ramazani-Moghaddam- Arani, M Hoseini
Iranian Journal of Physics Research 16 (4), 283-290 (2017).
27. **Feasibility study of using PIN semiconductors for diagnostic X-ray radiation dosimetry.**
RA Masoumbeigi M, Aliasgharzadeh A, Nazififard M
Iranian Journal of Radiation Safety and Measurement 4 (4), 15-20 (2016).
28. **Measurements of the three-body break-up channel observables for a part of the phase space of deuteron-deuteron scattering at 65 MeV/nucleon**
A. Ramazani-Moghaddam- Arani , F Karimian

IRANIAN JOURNAL OF PHYSICS RESEARCH 16 (1), 101-110 (2016).

29. **Investigation of the Three-Nucleon System Dynamics in the Deuteron–Proton Breakup Reaction**
I Ciepał, B Kłos, E Stephan, A Biegun, K Bodek, A Deltuva, E Epelbaum, ...
Few-body systems 55 (8-10), 639-644 (2014).
30. **Studies of the three-nucleon system dynamics in the deuteronproton breakup reaction**
I Ciepał, B Kłos, E Stephan, A Biegun, K Bodek, A Deltuva, E Epelbaum, ...
EPJ Web of Conferences 66, 03019 (2014).
31. **Measurement of the hadronic interaction inside the plastic scintillators**
A Ramazani-moghaddam-Arani, K Nazari
Iranian Journal of Physics Research 13 (1), 99-106 (2013).
32. **Calculation of A_x for the Proton–Deuteron Breakup Reaction at 135 MeV**
M Eslami-Kalantari, AA Mehmandoost-Khajeh-Dad, MA Shafaei, ...
Few-body systems 54 (7-10), 1297-1300 (2013).
33. **Investigation of electronic behavior of an irradiated diode circuit for gamma radiation purposes.**
M. Nazififard and A. Ramazani-Moghadam -Arani
Iranian Journal of Radiation Safety and Measurement 1 (3), 21-26 (2013).
34. **Study of all reaction channels in deuteron-deuteron scattering**
A Ramazani-Moghaddam-Arani, HR Amir-Ahmadi, AD Bacher, CD Bailey, ...
Modern Physics Letters A 24 (11n13), 835-838 (2009).
35. **Investigation of the quasi-free domain in deuteron-deuteron break-up using spin observables**
R Ramazani-Sharifabadi, MT Bayat, I Ciepał, N Kalantar-Nayestanaki, ...
European Physical Journal A 55 (177), 1-6