ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ*

1. Προσωπικά στοιχεία

Όνομα	*Αθηνά Πάκου*
Ημερομηνία γεννήσεως	27.05.1953
Τόπος γεννήσεως	Πάργα
Ακαδημαϊκή θέση	Καθηγήτρια Φυσικής
Διεύθυνση γραφείου	Πανεπιστήμιο Ιωαννίνων, Τμήμα Φυσικής, Εργαστήριο Πυρηνικής Φυσικής, 451 10 Ιωάννινα, τηλ: 26510-08554, fax: 26510-08692 e-mail: apakou@uoi.gr

2. Ακαδημαϊκές σπουδές

1975 Δίπλωμα Φυσικής, Πανεπιστήμιο Ιωαννίνων

1982 Διδακτορικό Δίπλωμα στην Πυρηνική Φυσική, Παν. Οξφόρδης
Τίτλος: ″Μαγνητικές ροπές βραχύβιων πυρηνικών καταστάσεων″

3.Ακαδημαϊκές θέσεις

1977.1982 Βοηθός, ΣΤ' έδρα Φυσικής, Πανεπιστήμιο Ιωαννίνων

1982.1987 Λέκτορας, Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων

1987.1993 Επίκουρος Καθηγήτρια, Τμήμα Φυσικής, Παν. Ιωαννίνων

1993.2005 Αναπληρώτρια Καθηγήτρια, Τμήμα Φυσικής, Παν. Ιωαννίνων

2005-2014 Καθηγήτρια, Τμήμα Φυσικής, Παν. Ιωαννίνων

2014-σημερα Ομότιμη Καθηγήτρια, Τμήμα Φυσικής, Παν. Ιωαννίνων

*ενημερωμένο Οκτωβριος 2024

4. Ερευνητικές θέσεις

1984-1985 Μεταδιδακτορικός Ερευνητής, Πανεπιστήμιο Rutgers-USA
(εξάμηνη εκπαιδευτική άδεια και άδεια άνευ αποδοχών)

1985-1988 Επισκέπτης Ερευνητής και Σύμβουλος Καθηγητής,
Πανεπιστήμιο Rutgers-USA *(ολιγόμηνες άδειες)*

1988-1990 Επισκέπτης Ερευνητής, Πανεπιστήμιο Πάδοβας-Italy
(ολιγόμηνες άδειες)

1991-1992 Επισκέπτης Ερευνητής-Επίτιμος Καθηγητής,
Πανεπιστήμιο Manchester -UK*(εξάμηνη εκπαιδευτική άδεια)*

1994-2000 Επισκέπτης Ερευνητής, Ερευνητικά Κέντρα Saclay και Ganil Γαλλίας και Πανεπιστήμιο Rutgers-USA *(ολιγόμηνες άδειες)*

1. Υποτροφίες-Διακρίσεις

1971-1975 Υπότροφος Κρατικού Ιδρύματος Υποτροφιών (I.K.Y)
(πανελλήνιες και καθόλη τη διάρκεια προπτυχιακών σπουδών)

1975-1977 Υπότροφος Εθνικού Ιδρύματος Ερευνών

1981-1982 Υπότροφος Ιδρύματος-Αλέξανδρος Ωνάσης
(ετήσια υποτροφία για μεταπτυχιακές σπουδές)

1982 Διάκριση από το κολέγιο Saint Hilda's-Oxford για επιτυχή διεκπεραίωση μεταπτυχιακών σπουδών

2011-2018 Πρόεδρος του Εικονικού Ελληνικού Ινστιτούτου Πυρηνικής Φυσικής

2018-σημερα Γραμματέας του Εικονικού Ελληνικού Ινστιτούτου Πυρηνικής Φυσικής

2008-2009 Πρόεδρος της Ελληνικής Εταιρείας Πυρηνικής Φυσικής

2009-2010 Αντιπρόεδρος της Ελληνικής Εταιρείας Πυρηνικής Φυσικής

- Μέλος της Ευρωπαικής και Αμερικανικής Ένωσης Πυρηνικής Φυσικής
- Κριτής στα επιστημονικά περιοδικά: European Physics Journal A, Physical Review C, Physical Review Letters

2. Δημοσιεύσεις

δημοσιεύσεις σε επιστημονικά περιοδικά	**220**
δημοσιεύσεις σε πρακτικά συνεδρίων	**90**
αναφορές	**3100**
h-index	**32**

5. Ερευνητικά ενδιαφέροντα

Τα ερευνητικά μου ενδιαφέροντα συνοψίζονται στις παρακάτω κατηγορίες

α) Βασική έρευνα

- Μετρήσεις μαγνητικών ροπών βραχύβιων διεγερμένων πυρηνικών καταστάσεων με τη μέθοδο των μαγνητικών μεταβατικών πεδίων
- Μελέτη εξωτικών πυρήνων (πυρήνων που παρουσιάζουν άλω ή νετρονιακή επιδερμίδα) μέσω της ελαστικής και ανελαστικής σκέδασης με πρωτόνια (αντίστροφη κινηματική) ή αντιδράσεων (p,n) και αντιδράσεων μεταφοράς
- Μελέτη οπτικού δυναμικού και μηχανισμών αντιδράσεων με ασθενικά δέσμιους πυρήνες σταθερούς και ραδιενεργούς σε ενέργειες κοντά στο φράγμα Coulomb.
- Αντιδράσεις σύντηξης

β) Εφαρμοσμένη έρευνα

- Μετρήσεις συντελεστών μεταφοράς ραδιονουκλιδίων στο περιβάλλον και μέσω τη τροφικής αλυσίδας στα ζώα και τον άνθρωπο. Δημιουργία μοντέλων.
- Το ραδόνιο σε οικοδομικά υλικά- Το ράδιο σε οικοδομικά υλικά ως το μέσο για τον προσδιορισμό της αντοχής σκυροδέματος.

6. Εκπαιδευτική δραστηριότητα

6α) Διδασκαλία μαθημάτων

- προπτυχιακά Πυρηνική Φυσική
  Εργαστήρια Φυσικής Ι (Μηχανική)

Εργαστήρια Φυσικής ΙΙ (Ηλεκτρομαγνητισμός)
Εργαστήρια Φυσικής ΙΙΙ (Κυμάνσεις)
Πειραματικές Μέθοδοι Φυσικής (Πυρηνική Φυσική)
Εργαστήρια Νεώτερης Φυσικής (Πυρηνική Φυσική)
Σύγχρονη Φυσική Ι
Σύγχρονη Φυσική ΙΙ (Πυρηνική Φυσική-Σωμάτια)
Διπλωματική Εργασία (10)

- μεταπτυχιακά Πυρηνική Φυσική

6β) Οργάνωση Εργαστηρίων

Συμμετοχή στην οργάνωση Εργαστηρίων Ηλεκτρομαγνητισμού. Οργάνωση ΕργαστηρίωνΝεώτερης (Πυρηνική Φυσική)-Συγγραφή Σημειώσεων

6 γ) Συγγραφή Βιβλίων

- Πειραματικές Μέθοδοι στην Πυρηνική Φυσική, Α. Πάκου, Ιωάννινα 1999
- Σύγχρονη Φυσική A. Beiser, Μετάφραση: Α. Πάκου, Ν. Νικολής Εκδόσεις Δαρδανού 2003

6δ) Τριμελείς διδακτορικών

- Γ. Ρουμπέας, "Μεταφορά ραδιενεργού δημητρίου από το έδαφος στα φυτά", Ιωάννινα 1996.
- Γ. Γκάλιου, "Μέτρηση ενεργών διατομών αντιδράσεων που παρουσιάζουν αστροφυσικό ενδιαφέρον" , Ιωάννινα1998.
- Δ. Καραμάνη, ″Μελέτη της δέσμευσης ραδιενεργών ρύπων από υποστηλωμένα φυλλόμορφα αργιλοπυριτικά υλικά″ Ιωάννινα 1998.
- Ν. Πατρώνη, "Μέτρηση της ενεργού διατομής σύλληψης νετρονίου από το ασταθές καίσιο-135 ", Ιωάννινα 2004

6ε) Επίβλεψη διατριβών

- Α. Λαγογιάννη,″ Μελέτη των αντιδράσεων p(^{6}He, ^{6}He)p, p(^{6}He, ^{6}He*)p' με τον ανιχνευτή MUST″ , PhD, Ιωάννινα 2001.
- Δ. Ρούμπος, «Ακτινική ευαισθησία του πυρηνικού δυναμικού σε ενέργειες κοντα στο φραγμα Coulomb», Msc, Ιωάννινα 2006.

- Κ. Ζέρβα, « Οπτικό Δυναμικό και Μηχανισμοί αντιδράσεων για ασθενικά δέσμιους Πυρήνες σε ενέργειες κοντά στο φράγμα Coulomb», PhD, Ιωάννινα 2013
- Ο. Σγούρος, «Transfer Reactions for ^{20}Ne+^{28}Si at near barrier energies», Msc, Ιωάννινα 2013
- Β. Σούκερας, «Elastic Scattering for ^{20}Ne+^{28}Si at near barrier energies», Msc, Ιωάννινα 2013
- Ο. Σγούρος, «Energy Dependence and Reaction Mechanisms for ^{7}Be+^{28}Si», PhD, Ιωάννινα, 2017
- Β. Σούκερας, «Elastic Scattering and Breakup for ^{8}B+^{208}Pb below barrier», PhD, Ιωάννινα, 2017
- Κ. Πάλλη, «Reaction mechanisms for radioactive nuclei at sub-barrier energies. PhD; 2021-σε εξέλιξη

8. Λοιπά στοιχεία

8α) Υπεύθυνη προγραμμάτων

Υπήρξα και είμαι υπεύθυνη (spokesperson) πολλαπλών προγραμμάτων εκ των οποίων ιδιαίτερη βαρύτητα κρίνω ότι έχουν τα παρακάτω τα οποία προτάθηκαν από τα Ιωάννινα.

- Μελέτη της ατομικής προέλευσης των μεταβατικών μαγνητικών πεδίων, ΕΚΕΦΕ – Δημόκριτος, 1985, (εργασία 12).
- Προσδιορισμός Μαγνητικών Ροπών με μεταβατικά πεδία και διέγερση με αντιδράσεις σύντηξης, Legnaro-Italy, 1989, (εργασία 25)
- Μαγνητικές ροπές διεγερμένων καταστάσεων στα ισότοπα ^{49,50}Cr, Daresbury-England, 1990, (εργασίες 29 και 34)
- Μελέτη της ελαστικής σκέδασης και μηχανισμών αντιδράσεων για ^{6,7}Li +^{28}Si σε ενέργειες κατω από το Coulomb barrier-ΔΗΜΟΚΡΙΤΟΣ, 2001-2008 (Πρόγραμμα Πυθαγόρας) -εργασίες 24, 28, 34, 40, 43, 44.
- Ολική Ενεργός διατομή των αντιδράσεων ^{6,7}Li+^{28}Si-ΔΗΜΟΚΡΙΤΟΣ, 2005, (Πρόγραμμα Πυθαγόρας)-εργασία 25.
- Μελέτη Ελαστικής Οπισθοσκέδασης για ^{6,7}Li+^{28}Si, ^{6,7}Li+^{58}Ni, ^{6,7}Li+^{120}Sn, ^{6,7}Li+^{208}Pb σε ενέργειες κοντά και κάτω από το φράγμα Coulomb, 2009, LNL-ITALY (Πρόγραμμα ENSAR) και ΔΗΜΟΡΙΤΟΣ (Πρόγραμμα ΗΡΑΚΛΕΙΤΟΣ)-εργασίες 8, 13 και

17.

- Μελέτη της ελαστικής σκέδασης ^{17}F+p σε ενέργειες κοντά στο φράγμα-Coulomb, 2010, LNL-ITALY (Πρόγραμμα ENSAR)-εργασία 9.
- Μελέτη Σύντηξης gia ^{8}B+^{28}Si σε ενέργειες κοντά στο φράγμα Coulomb, 2011, LNL-ITALY (Πρόγραμμα ENSAR)-εργασίες 2 και 5.
- Μελέτη ελαστικής σκέδασης και θρυματισμού του ^{6}Li+p σε ενέργειες κοντά στο Φράγμα Coulomb, CATANIA-LNS-ITALY (Πρόγραμμα ENSAR)- εργασίες
- Μελέτη της ελαστικής σκέδασης και μηχανισμών αντιδράσεων για ^{7}Be+^{28}Si σε ενέργειες κοντά στο φράγμα Coulomb -LNL-ITALY (Πρόγραμμα ENSAR)- εργασίες
- Μελέτη της Ελαστικής Σκέδασης και θρυματισμού για ^{8}B+^{208}Pb κάτω από το φράγμα Coulomb (Πανεπιστήμιο Notre Dame-USA)-εργασίες
- Μελέτη της Ελαστικής Σκέδασης και θρυματισμού για ^{8}B+^{90}Zr κάτω από το φράγμα Coulomb (Πανεπιστήμιο Notre Dame-USA)-εργασίες

8β) Σεμινάρια

Έχω δώσει σεμινάρια στα κάτωθι Πανεπιστήμια και ερευνητικά κέντρα

1984 Rutgers University-USA
1988 University of Padova-ITALY
1989 Legnaro-ITALY
1992 Πανεπιστήμιο Ιωαννίνων
1994 University of Manchester -UK
1996 Πανεπιστήμιο Ιωαννίνων
2003 Soltan Institute-Department of Nuclear Reactions-Warsaw-POLAND

8γ) Προγραμματισμός εξοικειωμένη με

- γλώσσα **FORTRAN 77**
- συστήματα **UNIX** - Xterm Unix και (PC) **Windows**
- κώδικες προγραμμάτων: **COULEX** (υπολογισμός ενεργών διατομών και γωνιακών

συσχετίσεων για διεγέρσεις Coulomb), **CASCADE** (ενεργές διατομές σε αντιδράσεις εξάχνωσης) , **CSMC** (υπολογισμοί cranked shell model) , **ECIS** (υπολογισμοί γωνιακών κατανομών και ολικών ενεργών διατομών με συνεζευγμένα κανάλια), **TAMURA-FLIT-FOP** (JLM μικροσκοπικοί υπολογισμοί γωνιακών κατανομών και ολικών ενεργών διατομών ελαστική-ανελαστική σκέδαση πρωτονίων, αντιδράσεις μεταφοράς και αντιδράσεις (p,n)), **PAW** (πρόγραμμα για ανάλυση δεδομένων και δημιουργία γραφικών παραστάσεων).

8δ) Ξένες γλώσσες

- Αγγλικά (πολύ καλά)
- Γαλλικά (μέτρια)
- Ιταλικά (μέτρια)

8. ΔΗΜΟΣΙΕΥΣΕΙΣ

I. ΔΙΑΤΡΙΒΗ

Magnetic moments of short lived nuclei.
A. Pakou
D. Phil Thesis submitted at the University of Oxford, September 1982.

II. ΔΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ

1. Elastic scattering of 8B+natZr at the sub-barrier energy of 26.5 MeV
   K. Palli, A. Pakou, P. O'Malley, L. Acosta, A. M. Sánchez-Benítez, G. Souliotis, A. M. Moro, E. F. Aguilera, E. Andrade, D. Godos, O. Sgouros, V. Soukeras, C. Agodi, T. L. Bailey, D. W. Bardayan, C. Boomershine, M. Broduer, F. Cappuzzello, S. Carmichael, M. Cavallaro, S. Dede, J. A. Dueñas, J. Henning, K. Lee, W. S. Porter, F. Rivero, W. von Seeger; Physical Review C 109 (2024) 064614.
   Doi: 10.1103/PhysRevC.109.064614

2. Analysis of one-proton transfer reaction in 18O+76Se collisions at 275 MeV
   I. Ciraldo, F. Cappuzzello, M. Cavallaro, D. Carbone, A. Gargano, G. De Gregorio, H. Garcia-Tecocoatzi, E. Santopinto, R.I. Magana-Vsevolodovna, L. Acosta, C. Agodi, P. Amador-Venenzuela, G. A. Brischetto, S. Burello, D. Calvo, E.R. Chávez Lomeli, M. Colonna, F. Delaunay, H. Djapo, C. Eke, P. Finocchiaro, S. Firat, M. Fisichella, M.A. Guazzelli, A. Hacisalihoglu, R. Linares, N.H. Medina, M. Moralles, J.R.B. Oliveira, A. Pakou, L. Pandola, H. Petrascu, F. Pinna, O. Sgouros, S.O. Solakci, V. Soukeras, G. Souliotis, A. Spatafora, D. Torresi, S. Tudisco, A. Yildirim, V.A.B. Zagatto; Physical Review C 109 (2024) 024615.
   Doi: 10.1103/PhysRevC.109.024615

3. ^{18}O+^{48}Ti elastic and inelastic scattering at 275 MeV
   G.A. Brischetto, O. Sgouros, D. Carbone, F. Cappuzzello, M. Cavallaro, J. Lubian, G. De Gregorio, C. Agodi, D. Calvo, E.R. Chávez Lomeli, I. Ciraldo, F. Delaunay, H. Djapo, C. Eke, P. Finocchiaro, M. Fisichella, A. Gargano, M.A. Guazzelli, A. Hacisalihoglu, R. Linares, N.H. Medina, M. Moralles, J.R.B. Oliveira, A. Pakou, L. Pandola, V. Soukeras, G. Souliotis, A. Spatafora, D. Torresi, A. Yildirim, V.A.B. Zagatto; Physical Review C 109 (2024) 014604.
   Doi: 10.1103/PhysRevC.109.014604

4. One-neutron transfer reaction in the ^{18}O+^{48}Ti collision at 275 MeV; O. Sgouros, M. Cutuli, F. Cappuzzello, M. Cavallaro, D. Carbone, C. Agodi, G. De Gregorio, A. Gargano, R. Linares, G. A. Brischetto, D. Calvo, E.R. Chávez Lomeli, I. Ciraldo, F. Delaunay, H. Djapo, C. Eke, P. Finocchiaro, M. Fisichella, M.A. Guazzelli, A. Hacisalihoglu, J. Lubian, N.H. Medina, M. Moralles, J.R.B. Oliveira, A. Pakou, L. Pandola, V. Soukeras, G. Souliotis, A. Spatafora, D. Torresi, A. Yildirim, V.A.B. Zagatto; Physical Review C 108 (2023) 044611.
   Doi: 10.1103/PhysRevC.108.044611

5. Multinucleon transfer channels from 70Zn (15 MeV/nucleon) + 64Ni collisions
   S. Koulouris, G.A. Souliotis, F. Cappuzzello, D. Carbone, A. Pakou, C. Agodi, G. Brischetto, S. Calabrese, M. Cavallaro, I. Ciraldo, O. Fasoula, J. Klimo, K. Palli, O. Sgouros, V. Soukeras, A. Spatafora, D. Torresi, M. Veselsky; Physical Review C 108 (2023) 044612.
   Doi: 10.1103/PhysRevC.108.044612
6. Quasielastic scattering of ^{7}Be + ^{nat}Zr at sub- and near-barrier energies
   K. Palli, A. Pakou, A. M. Moro, P. O'Malley, L. Acosta, A. M. Sánchez-Benítez, G. Souliotis, E. F. Aguilera, E. Andrade, D. Godos, O. Sgouros, V. Soukeras, C. Agodi, T. L. Bailey, D. W. Bardayan, C. Boomershine, M. Broduer, F. Cappuzzello, S. Carmichael, M. Cavallaro, S. Dede, J. A. Dueñas, J. Henning, K. Lee, W. S. Porter, F. Rivero, W. von Seeger; Physical Review C 107 (2023) 064613.
   Doi: 10.1103/PhysRevC.107.064613

7. Multichannel experimental and theoretical approach to the 12C(18O,18F)12B single-charge-exchange reaction at 275 MeV: Initial-state interaction and single-particle properties of nuclear wave functions; A. Spatafora, D. Carbone, F. Cappuzzello, M. Cavallaro, L. Acosta, C. Agodi, P. Amador-Venenzuela, T. Borello-Lewin, G. A. Brischetto, S. Calabrese, D. Calvo, V. Capirossi, E.R. Chávez Lomeli, I. Ciraldo, G. De Gregorio, F. Delaunay, H. Djapo, C. Eke, P. Finocchiaro, S. Firat, M. Fisichella, A. Foti, A. Gargano, A. Hacisalihoglu, F. Iazzi, L. La Fauci, R. Linares, J. Lubian, N. Medina, M. Moralles, J.R.B. Oliveira, A. Pakou, L. Pandola, H. Petrascu, F. Pinna, G. Russo, O. Sgouros, M.A.G da Silveira, S.O. Solakci, V. Soukeras, G. Souliotis, D. Torresi, S. Tudisco, A. Yildirim, V.A.B. Zagatto; Physical Review C 107 (2023) 024605. Doi: 10.1103/PhysRevC.107.024605

8. Global approach for the reactions ^{7}Be + ^{28}Si and ^{7}Be + ^{208}Pb at near- and sub-barrier energies; O. Sgouros, V. Soukeras, K. Palli, A. Pakou; Physical Review C 106 (2022) 044612.
   Doi: 10.1103/PhysRevC.106.044612

9. Analysis of the one-neutron transfer reaction in ^{18}O + ^{76}Se collisions at 275 MeV
   I. Ciraldo, F. Cappuzzello, M. Cavallaro, D. Carbone, S. Burello, A. Spatafora, A. Gargano, G. De Gregorio, R.I. Magana Vsevolodovna, L. Acosta, C. Agodi, P. Amador-Venenzuela, T. Borello-Lewin, G. A. Brischetto, S. Calabrese, D. Calvo, V. Capirossi, E.R. Chávez Lomeli, M. Colonna, F. Delaunay, H. Djapo, C. Eke, P. Finocchiaro, S. Firat, M. Fisichella, A. Foti, A. Hacisalihoglu, F. Iazzi, L. La Fauci, R. Linares, N.H. Medina, M. Moralles, J.R.B. Oliveira, A. Pakou, L. Pandola, H. Petrascu, F. Pinna, G. Russo, E. Santopinto, O. Sgouros, M.A. Guazzelli, S.O. Solakci, V. Soukeras, G. Souliotis, D. Torresi, S. Tudisco, A. Yildirim, V.A.B. Zagatto; Physical Review C 105 (2022) 044607.
   Doi: 10.1103/PhysRevC.105.044607

10. Identification of medium mass (A=60–80) ejectiles from 15 MeV/nucleon peripheral heavy-ion collisions with the MAGNEX large-acceptance spectrometer
    G. A. Souliotis, S. Koulouris, F. Cappuzzello, D. Carbone, A. Pakou, C. Agodi, G. Brischetto, S. Calabrese, M. Cavallaro, I. Ciraldo, J. Klimo, O. Sgouros, V. Soukeras, A. Spatafora, D. Torresi, M. Veselsky; Nuclear Inst. and Methods in Physics Research A 1031 (2022) 166588.

Doi: 10.1016/j.nima.2022.166588

11. Reaction mechanisms of the weakly bound nuclei ^{6,7}Li and ^{7,9}Be on light targets at near barrier energies; A. Pakou, O. Sgouros, V. Soukeras, J. Casal, K. Rusek; European Physical Journal A 58 (2022) 8. [review article]
Doi: 10.1140/epja/s10050-021-00655-w

12. Coherent description of elastic scattering and fusion at near-barrier energies for the ^{9}Be+^{208}Pb and ^{9}Be+^{197}Au reactions, K. Palli, J. Casal, A. Pakou, Phys. Rev. C **105**, 064609 (2022).

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