

# CURRICULUM VITAE

Photo

## Personal information

- **Personal**

- Prof MERAD Mahmoud
- Professor, , University of Oum El Bouaghi, Algeria.
- E-mail: meradm@gmail.com
- Mobile:0796556005

- **Researcher identity**

- Google Scholar: <https://scholar.google.com/citations?user=qUAIWTwAAAAJ&hl=en>
- ReaserchGate: <https://www.researchgate.net/profile/Mahmoud-Merad> ORCID: <https://orcid.org/0000-0001-7547-6933>

## Education

- **Ph.D.'s degree** in theoretical physics
- **Master's degree** in theoretical physics
- **License's degree** in theoretical physics

## Functions and Affiliations

- **Professor,** .....
- **Associate professor,** .....
- **Head of Department of Economics,** .....

## Teaching modules

### Teaching in Graduation

- SEP235, classical mechanics 4th year (Physical license)
- SEP236, quantum mechanics 4th year (Physics license)
- SEM323, (Maths License) 4th Year
- SEP239, Wave vibrations and optics 2nd year (Physics license)
- SEP201, Analytical mechanics 2nd year (D.E.S physics)
- Electricity, 1st year (SETI)
- Physics, 1st year (LMD)
- Physics, 1st year (GTU)

- Complex Analysis, Maths 3rd Year (D.E.S Physics)
- Quantum mechanics, 2nd year (D.E.S, Physics)
- Analysis II, 2nd year (D.E.S; Physics)
- Quantum mechanics II, 3rd year (D.E.S) and LMD
- Group theory 4th year physics
- Atomic physics 2nd year SETI
- Mechanics 1st year physical license LMD
- Waves and vibrations, 2nd year license in physics LMD
- Relativity, 3rd year physical license LMD
- Didactics of physics 1st year Master
- . Particle physics 3rd year LMD
- Statistical physics 3rd year LMD
- Mathematical methods for physics
- Quantum mechanics, 1st year Master

#### **Post-Graduation Teaching**

- Quantum Field Theory,  
 Relativistic and non-relativistic quantum mechanics  
 Gauge Theory

#### International publications

1) Exact path integral treatment for step potential in relativistic two component theory. T Boudjedaa, L Chetouani and **M. Merad**, IL NUOVO CIMENTO, 114 B,(1999) 1261.

2) Boundary conditions for one-dimensional Feshbach-Villars equation.

**M.Merad**, L. Chetouani and A.Bounames, Physics Letters A.vol.267 (2000) ,225.

3) Path integral for the coulomb problem in the Feshbach-Villars formalism

**M. Merad** T. Boudjedaa, and L Chetouani, Chinese journal of physics , 38(2000) 1019.

4) Exact path integral for a neutron in the magnetic field of a line current.

**M. Merad** T. Boudjedaa, and L Chetouani, Journal of the Korean Physical Society, 38 (2001).

5) Path integral treatment for spinless relativistic equation in the two component theory. **M. Merad**, T. Boudjedaa, and L Chetouani, Turkish Journal of physics, 25,(2001) 159.

- 6) Particle on conical surface, **M. Merad**, T. Boudjedaa, and L Chétouani, European Physical Journal C, 26 (2002) 299.
- 7) Solution of Duffin-Kemmer-Petiau equation for the step potential. L.Chetouani, **M.Merad**, T.Boudjedaa and A.Lecheheb. International Journal of Theoretical Physics 43(2004) 1147
- 8) Non Commutative Green function for Feshbach-Villars equation. L.Chetouani, **M.Merad**, T.Boudjedaa and A.Lecheheb. Acta Physica Slovaca vol 55 (2005) 379.
- 9) Propagator via Bohm Mechanics », A.Tilbi and **M.Merad** , Publications de l'université de Haute Alsace,France 2006.
- 10)Duffin-Kemmer-Petiau Green Function For Spin 0 And 1 In Barrier Potential. B.Boutabia-Cheraitia, T.Boudjedaa and **M.Merad**, Publications de l'université de Haute Alsace,France 2006.
- 11) Quantization on the circle. **M.Merad**, Canadian journal of physics . 84(2006) 335.
- 12) **DKP** particle in time-dependent, **M. Merad**, H. Bada and A. Lecheheb, Czechoslovak Journal of Physics, 56( 2006) 765,
- 13) Path integral treatment for a Coulomb system constrained on D-dimensional sphere and hyperboloid.322 ( 2007)1233, **Annals of Physics**. A. Lecheheb, **M. Merad** and T. Boudjedaa.
- 14) The Kanai–Caldirola propagator in the de Broglie–Bohm theory, *A Tilbi, T Boudjedaa, M Merad and L Chetouani , Physica scripta . 75* (2007) 474.
- 15) Wave functions for a Duffin-Kemmer-Petiau particle in a time-dependent potential, **M. Merad** and S. Bensaid, Journal of math physical. **48** (2007) 073515 .
- 16) **DKP Equation with Smooth Potential and Position-Dependent Mass**, **M.Merad** International journal of theoretical Physics 46 (2007) 2105.
- 17) The DKP oscillator in a noncommutative space, M. Falek and **M. Merad** Communication in Theoretical Physics 50(2008) 587.

- 18) The time-dependent linear potential in the presence of minimal length, M. Falek and **M. Merad**, *Physica scripta*. 79 (2009) 015010.
- 19) Bosonic oscillator in the presence of minimal lengths, M. Falek and **M. Merad** : Journal of Math physics . 50 (2009) 023508.
- 20) Generalization of Bosonic oscillator in the presence of minimal lengths, M. Falek and **M. Merad** .:Journal of Math physics . 51 (2010) 033516.
- 21) Duffin-Kemmer-Petiau equation in Robertson-Walker space-time, M. Falek and **M. Merad**, *Central European Journal of Physics*, 8(2010)408.
- 22) Exact Solution to the Scalar DKP Equation in (1+3)-dimensional Robertson–Walker Space-Time, M. Falek and **M. Merad**. International Journal of Modern Physics A , [25,](#) (2010) 2747.
- 23) Spinless Relativistic Particle in the Presence of, A Minimal Length, **M. Merad**, F. Zeroual and H. Benzair Electronic Journal of Theoretical Physics 7 (2010) 41.
- 24) Relativistic oscillators in a Non Commutative space: Path integral approach.  
H.Benzair, **M. Merad**., T.Boudjedaa and A.Makhlof, Zeitschrift für Naturforschung A. Vol. 67a (2012) .
- 25) Relativistic equation in electromagnetic fields with a generalized uncertainty principle, **M. Merad** , F. Zeroual and M. Falek, Modern PhysicsLetters A, Vol 27,15 (2012) 1250080.
- 26) Path Integral for Dirac oscillator with generalized uncertainty principle..  
H.Benzair,T.Boudjedaa and **M. Merad**; Journal of Math physics 53, 123516 (2012).
- 27) Duffin-Kemmer-Petiau Equation in curved space-time, M. Falek  
*and M. Merad*. AIP Conference Proceedings 8 1444 (1), 367-369 (2012)  
<http://dx.doi.org/10.1063/1.4715455>.
- 28) *Spinorial Relativistic Particle in the Presence of A Minimal Length*, F.  
Zeroual *and M. Merad*, AIP Conference Proceedings 8 1444 (1), 453-456 (2012);  
<http://dx.doi.org/10.1063/1.4715475>

29) [Noncommutative Path Integral for Spinless Relativistic Equation in the Two-Component Theory](#); H Benzair, **M Merad**, T Boudjedaa, Modern Physics Letters A 28 (32) 2013

30) [Path integral of a relativistic spinning particle in \(1+ 1\) dimension with vector and scalar linear potentials in the presence of a minimal length](#), H Benzair, **M Merad**, T Boudjedaa, International Journal of Modern Physics A 29 (07)2014

31) [Klein Paradox for the Bosonic Equation in the Presence of Minimal Length](#)

M Falek, **M Merad**, M Moumni, Foundations of Physics, Found Phys ;45:507 (2015).

32) [Particles of Spin Zero and 1/2 in Electromagnetic Field with Confining Scalar Potential in Modified Heisenberg Algebra](#), A Tilbi, **M Merad**, T Boudjedaa, Few-Body Systems 56 (2-3), 139-147(2015).

33) [On Fractional Duffin–Kemmer–Petiau Equation](#), N Bouzid, **M Merad**, D Baleanu , Few-Body Systems 57 (4), 265-273 .(2016)

34) [Space-time transformation for the propagator in de Broglie–Bohm theory](#)

A Tilbi, T Boudjedaa, **M Merad**, Pramana 87 (5), 66 (2016)

35) [Propagator of Dirac oscillator in 2D with the presence of the minimal length uncertainty](#) H Benzair, T Boudjedaa, **M Merad**, The European Physical Journal Plus 132 (2), 94 (2017)

36) [Duffin–Kemmer–Petiau oscillator with Snyder-de Sitter algebra](#)

M Falek, **M Merad**, T Birkandan , Journal of Mathematical Physics 58 (2), 023501 (2017)

37) [Space-Time Fractional DKP Equation and Its Solution](#), N.Bouzid, **M Merad**, Few-Body Systems 58 (3), 131 (2017)

38) Energy-dependent harmonic oscillator in noncommutative space: A path integral approach, A Benchikha, **M Merad**, International Journal of Modern Physics A 32 (32), (2017)1750194

39)Energy-dependent harmonic oscillator in noncommutative space

40) Electron propagator with vector and scalar energy-dependent potentials in (2+1)-dimensional space-time, H Benzair, **M Merad**, T Boudjedaa, International Journal of Modern Physics A, (2018)1850186,

41) Schwinger mechanism on de Sitter background

B Hamil, **M Merad**, International Journal of Modern Physics A 33 (30), (2018) 1850177

42) Dirac and Klein-Gordon oscillators on anti-de Sitter space

B Hamil, **M Merad**, The European Physical Journal Plus 133 (5), (2018) 174

43) Relativistic Oscillators in Generalized Snyder Model,

MH Moussa and **M Merad**, Few-Body Syst 59, 44 (2018)

44) Exact Solution of Klein-Gordon and Dirac Equations with Snyder-de Sitter Algebra,

**M Merad** and MH Moussa, Few-Body Systems 59 (1), 5 (2018)

45) Bosonic oscillator under a uniform magnetic field with Snyder-de Sitter algebra; M Falek, **M Merad**, M Moumni; Journal of Mathematical Physics 60 (1), 013505(2019)

46) Dirac Equation in the Presence of Minimal Uncertainty in Momentum, B Hamil and **M Merad**, Few-Body Systems 60 (2), 36( 2019).

47) Applications of the extended uncertainty principle in AdS and dS spaces, B Hamil,

**M Merad**, T Birkandan, The European Physical Journal Plus 134 (6), 278, (2019)

48) Fermionic Schwinger model for spinning Feshbach–Villars particle in magnetic field, T Boudjedaa, **M Merad**; International Journal of Modern Physics A 34 (19), 1950101(2019)

49) Bosonic Oscillator on the de Sitter and the Anti-de Sitter Spaces. MH Moussa,

**M Merad**, A Merad, Few-Body Systems 60 (3), 53 (2019)

50) DKP Equation with Energy Dependent Potentials; O Langueur, **M Merad**, B Hamil, Communications in Theoretical Physics 71 (9), 1069 (2019).

51) Relativistic oscillators in new type of the extended uncertainty principle, A Merad, M Aouachria, **M Merad**, T Birkandan; International Journal of Modern Physics A 34 (32), 1950218 (2019).

52)[Bosonic Schwinger model for spinning Feshbach–Villars particle in step potential](#)

T Boudjedaa, M Merad

International Journal of Modern Physics A 35 (04), 2050010(2020)

53)[Pair creation in curved Snyder space](#)

B Hamil, M Merad, T Birkandan

International Journal of Modern Physics A 35 (04), 2050014(2020)

54)[Spinless Relativistic Particle in the Presence of Minimal Uncertainty in the Momentum](#)

A Merad, M Aouachria, M Merad

Few-Body Systems 61, 1-10(2020)

55)[Erratum:“Bosonic oscillator under a uniform magnetic field with Snyder-de Sitter algebra”\[J. Math. Phys. 60, 013505 \(2019\)\]](#)

M Falek, M Merad, M Moumni

Journal of Mathematical Physics 61 (6), 069901(2020)

56)[The Duffin-Kemmer-Petiau oscillator in the presence of minimal uncertainty in momentum](#)

B Hamil, M Merad, T Birkandan

Physica Scripta 95 (7), 075309(2020)

57)[Exact Solutions of the DKP Oscillator in 3D Spaces with Extended Uncertainty Principle](#)

M Falek, M Moumni, M Merad

arXiv preprint arXiv:2006.15593(2020)

58)[Relativistic oscillators in the context of MS noncommutative model](#)

B Hamil, A Merad, M Merad

Europhysics Letters 131 (1), 10003(2020)

**59) The Effects of the Modified (Anti-) Snyder Model on the Thermodynamic Properties of an Ideal Gas**

B Hamil, M Merad, T Birkandan

International Journal of Thermophysics 41, 1-14(2020)

**60) Path integral for quantum dynamics with position-dependent mass within the displacement operator approach**

H Benzair, M Merad, T Boudjedaa

Modern Physics Letters A 35 (30), 2050246(2020)

**61) Bound-state solutions of the two-dimensional Dirac equation with Aharonov–Bohm–Coulomb interaction in the presence of extended uncertainty principle**

B Hamil, M Merad, T Birkandan

Physica Scripta 95 (10), 105307(2020)

**62) Path integral approach to the  $D$ -dimensional quantum mechanics of the nonrelativistic Snyder–de Sitter model**

H Benzair, T Boudjedaa, M Merad

International Journal of Modern Physics A 35 (28), 2050180(2020)

**63) Feshbach–Villars equation in a -Minkowski spacetime**

B Hamil, M Merad

Modern Physics Letters A 35 (37), 2050307(2020)

**64) Effects of extended uncertainty principle on the relativistic Coulomb potential**

B Hamil, M Merad, T Birkandan

International Journal of Modern Physics A 36 (03), 2150018(2021)

**65) Three-dimensional DKP oscillator in a curved Snyder space**

B Hamil, M Merad, T Birkandan

International Journal of Modern Physics A 36 (08n09), 2150058(2021)

**66) Particle creation in the context of the emergent universe**

B Hamil, M Merad, T Birkandan

Revista mexicana de física 67 (2), 219-225(2021)

**67) Coulomb potential in the presence of minimal uncertainty in momentum**

B Hamil, M Merad

Indian Journal of Physics 95, 1079-1084(2021)

[\*\*68\) A Two-Body Problem for a Class of Coupling Potentials with Harmonic Oscillator Interaction in Noncommutative Phase Space: Path Integral Approach\*\*](#)

H Benzair, M Merad, T Boudjedaa

Few-Body Systems 62, 1-10(2021)

[\*\*69\) The GUP for non-relativistic Feynman propagator with energy-dependent mass\*\*](#)

H Benzair, T Boudjedaa, M Merad

International Journal of Geometric Methods in Modern Physics 18 (08), 2130002 (2021)

[\*\*70\) DKP equation with smooth barrier\*\*](#)

O Langueur, M Merad, A Rassoul

International Journal of Modern Physics A 36 (26), 2150187(2021)

[\*\*71\) The Dunkl–Duffin–Kemmer–Petiau Oscillator\*\*](#)

A Merad, M Merad

Few-Body Systems 62, 1-12(2021)

[\*\*72\) Dunkl–Duffin–Kemmer–Petiau equation in \(2+ 1\) dimensions: The Dunkl–Bosonic oscillator spinless under Landau levels and Coulomb potential\*\*](#)

A Merad, M Merad, T Boudjedaa

International Journal of Modern Physics A 37 (11n12), 225007(2022)

[\*\*73\) Relativistic particles in electromagnetic field with confining scalar potential in doubly special relativity\*\*](#)

D Seffai, M Merad, B Hamil

Indian Journal of Physics 96 (7), 2211-2219(2022)

[\*\*74\) Correction to: The Dunkl–Duffin–Kemmer–Petiau Oscillator\*\*](#)

A Merad, M Merad

Few-Body Systems 63 (2), 53(2022)

[\*\*75\) The Dunkl-Duffin-Kemmer-Petiau Oscillator \(vol 62, 98, 2021\)\*\*](#)

A Merad, M Merad

FEW-BODY SYSTEMS 63 (2) (2022)

[\*\*76\) Bound states of a relativistic spinning particle in an inhomogeneous magnetic field and its thermodynamic properties\*\*](#)

H Hamdi, H Benzair, M Merad, T Boudjedaa

The European Physical Journal Plus 137 (9), 1-14(2022)

**Interests and Qualifications**

— **Interests:**

**Area of research and/or specialty: In theoretical physics and mathematical physics**

- Quantification methods: Integral Path, Direct Method etc....
- Noncommutative Geometry
- Field theory via the two versions Feynman and Schwinger
- Time-dependent spinor and tensor relativistic systems
- Fractional Derivatives and Deformed Algebras

**Direction of theses**

- Supervised and defended master's theses:

1) Benzair Hadjira: "Supersymmetric path integral for Feshbach-Villars" (June 2004, University of Ouargla).

2) Bada Hassan: "Semi-classical treatment for non relativistic problems

and exact solutions of relativistic problems of spin 0 and 1 »

(March 2005, Oum El Bouaghi University Center)

3) Falek Mokhtar: "Treatment of some relativistic problems and nonrelativistic in commutative and non-commutative space"

(May 2006, University Center Oum El Bouaghi)

4) Bensaid Souad: "Integral Path Formulation in the non-commutative space and in the commutative space with constraint." (2006 Oum el Bouaghi University Center)

5) Bouhrour Nardjis: "Integral Path for the particle on the sphere" (June 2006, University of Jijel)

6) Tiab Lamia: "Exact solution of some fundamental problems via:

-The Theory of Feshbach-Villars with two components and a case with variable mass - The theory of DKP of spin 0 and 1" (2007, University Center Oum El Bouaghi)

**Supervised and defended doctoral theses:**

1)- Treatment of certain problems via the Duffin-Kemmer-Petiau theory

Falek Mokhtar University of jijel 13/10/2011.

2)- Integral formulation of supersymmetric path in distorted relativistic quantum mechanics, Benzair Hadjira, University of Jijel 07/04/2013

3) -Dynamic study of certain relativistic problems in the presence of a minimal distance, Zeroual Farida, University of Oum el Bouaghi 01/17/2013

4)- Treatment of some relativistic and non-relativistic problems

with fractional derivatives, Bouzid Naima, University of Oum el Bouaghi 2017-03-19

5) -Treatment of Certain Problems of Quantum Mechanics in the Framework of Deformed Algebras, Hadj Moussa M'hamed, Oum el Bouaghi 20/06/2019.

6) Study of the dynamics of relativistic particles in interaction with a certain class of potentials

O Languor, Oum-El-Bouaghi 2020

### **Publications Nationales**

-Traitement du Potentiel Woods -Saxon dans la théorie relativiste à Deux Composantes, **M.Merad**, *Annale Académie de Constantine. vol.1(A) pages 9-12,(1999).*

### **Communications nationales**

1) Mécanique Quantique sur le cercle: **M.Merad**.4eme Congres National de la physique et ses applications( SIDI FREDJ ,le 21-23 Novembre 2000).

2) Path integral for Feshbach-Villars particle spin  $\frac{1}{2}$ : Foldy- Wouthysen transformation: O. Atmani, T.Boudjedaa and **M. Merad**, The Sixth Constantine High Energy Physics School, Avril 2002.

3) Propagator via Bohm Mechanics, A. Tilbi and **M. Merad**, Journées Algéro-Françaises, Ouargla, décembre 2004.

4) Green's Duffin-Kemmer-Pétiau Function for particles of spin 0 and 1 in scalar potential of Woods-Saxon , B.Boutabia-Cheraitia, T.Boudjedaa and **M.Merad**, Journées Algéro-Françaises, Ouargla, décembre 2004.

5) Path Integral supersymmetric of Feshbach-Villars Equation, H. Benzair, **M. Merad** and T.Boudjedaa, Journées Algéro-Françaises, Ouargla, décembre 2004.

6) Duffin Kemmer Petiaux Oscillator with de Sitter Algebra, M. Hadj Moussa and **M Merad**, - Workshop Systèmes Dynamiques Distribués Université d'Oum El Bouaghi 14 /11/ 2018. SDEDA 2018.

7) Exact solution of the D dimensional Klein Gordon Oscillator with Snyder de Sitter algebra, Z Hemame, M.Falek and **M Merad**, -Workshop Systèmes Dynamiques Distribués Université d'Oum El Bouaghi 14 /11/ 2018. SDEDA 2018.

8) Nikiforov Uvarov methode and polynomial solutions of hypergeometric equation , M.Falek and **M Merad**, -Workshop Systèmes Dynamiques Distribués Université d'Oum El Bouaghi 14 /11/ 2018. SDEDA 2018.

9) Klein Gordon energy dependent Oscillator in non commutative space ,A Benchikha and **M Merad**, -Workshop Systèmes Dynamiques Distribués Université d'Oum El Bouaghi 14 /11/ 2018. SDEDA 2018.

### ***Communications internationales***

1) Path integral treatment for relativistic spinless particle in a noncommutative phase space. H. Benzair and **M. Merad**

[8th INTERNATIONAL CONFERENCE ON PROGRESS IN THEORETICAL PHYSICS ICPTP2011 23-25 October 2011 Mentouri University Constantine ALGERIA.](#)

2) *Duffin-Kemmer-Petiau Equation in curved space-time,*

M. Falek and **M. Merad**, The 8<sup>th</sup> International Conference on progress in theoretical Physics, Constantine **23-25 October 2011**

3) Spinorial Relativistic Particle in the Presence of A Minimal Length.,

F. Zeroual and **M. Merad**, The 8<sup>th</sup> International Conference on progress in theoretical Physics, Constantine **23-25 October 2011**.

4) The propagator of relativistic particles with electromagnetic fields in a non-commutative space, H Benzair, **M Merad**, Colloque international sur les premières Journées de Mathématiques et Applications de Mila « JMAM 2013 », 19-21 octobre 2013

### **Ouvrages**

Title: Path integral methods in generalized uncertainty principle

Authors: Benzair Hadjira , **Mahmoud Merad** and Boudjedaa Tahar

Book title: Quantum Mechanics (ISBN 978-953-51-4131-0)

InTech Europe, Janeza Trdine 9, 51000 Rijeka, Croatia

### **ANIMATIONS SCIENTIFIQUES**

1) Responsable scientifique d'ouverture de Magister (Président du CPM Année 2001/2002/2003) Option : Physique Théorique ;

2) Membre du Comité Pédagogique de Magister option : Optélectronique, Année 2001/2002

3) Membre du Comité Pédagogique National de Physique **CPN** (2004)

4) -Participation à l'école doctorale dans le cadre des Journées Algéro-Françaises. « Physique-Chimie » Université de Jijel décembre 2004.

-Participation à l'école doctorale Ecole doctorale « Physique Théorique » Université de Jijel ;

-Deuxième école de physique théorique de Jijel: Théorie quantique des champs, méthodes et applications ; 28 May - 1 June 2006, Jijel, Algérie

-3ème école de physique théorique de Jijel: Gravitation ; théorie et expérience

26sptembre – 3 octobre 2009, Jijel, Algérie

-4<sup>ème</sup> Ecole de Physique Théorique de Jijel/ 4th Jijel School on theoretical physics, Topics in quantum physics and path integrals, September 25 -29, 2016

-6<sup>ème</sup> Ecole : *Equations Différentielles Abstraites*, Université d'Oum El Bouaghi, 17 – 21 avril 2011

-Workshop Analyse Des Systèmes Dynamiques Distribués Et Contrôle Université d'Oum El Bouaghi 09-13 Mai 2010.

-Workshop Systèmes Dynamiques Distribués Université d'Oum El Bouaghi 26 /09/ 2012.

- Conférence nationale sur les Systèmes dynamiques, équations différentielles et applications, The 1st National Conference on Dynamical Systems, Differential Equations and Applications Oum El Bouaghi 10-11/03/2015.

-First International Conference on New Materials and Active Devices

Premier Congrès International sur les Nouveaux Matériaux et les Composants Actifs

(NMCA'2011) Oum El-Bouaghi (Algeria), May 23<sup>rd</sup> - 25<sup>th</sup> 2011

-Second International Conference on New Materials and Active Devices

Deuxième Congrès International sur les Nouveaux Matériaux et les Composants Actifs

(NMCA'2014) Oum El-Bouaghi (Algeria), May 25<sup>th</sup> - 26<sup>th</sup> 2014

-Workshop Systèmes Dynamiques Distribués Université d'Oum El Bouaghi 14 /11/ 2018.

**REFERE** dans :

- 1) journal of mathematical physics
- 2) *Physica scripta*
- 3) *International Journal of Theoretical Physics*
- 4) central european journal of physics
- 5 ) *Communication in theoretical physics*
- 6) *International Journal of the Physical Sciences*
- 7) *Indian journal of physics*

- 8) Fondations of physics
- 9) annalen der physic
- 10) Advances in High Energy Physics
- 11) Few-Body Systems
- 12) International Journal of Modern Physics A
- 13) The European Physical Journal Plus

**Member of the editorial board :**

Journal of New Technology and Materials (JNTM)

**Expérience dans la Recherche**

Période	Titre du projet	Nom du chef de Projet
2000	Mécanique quantique spinorielle relativiste et path integral » agréée le 01/01/2000 sous le Code D2501/-05/99.	L Chetouani
2003	Formalisme de quantification : Fondement et Application » agréée le 01/01/2003 sous le code D0401/01/03.	M Merad
2004	« Le principe d'action de Schwinger formalisme et application » agréée le 01/01/2004 sous le Code D1801/01/04.	T. Boudjedaa
2006	La non différentiabilité et le comportement macroscopique des particules » agréée le 01/01/2006 sous le code D0401/80/06	M. Merad
2009	Dynamique des bosons scalaires et vectoriels dans le cadre de l'incertitude minimale, agréée le 01/01 2009 sous le code D03020090010.	M. Merad
2011	Projet PNR agréée 02/05/ 2011, <i>Théorie de la déformation et quantification des champs. Code 8/u04/4981</i>	M. Merad
2013	<i>Formulation de La Mécanique Quantique Relativiste et non Relativiste dans le cadre des Algèbres Déformées,</i> agréée le 01/01 2012 sous le code :D03020120002	M. Merad

2018	<i>Etude de certains problèmes d'évolutions Fractionnaires issus de la physique quantique , agréée le 01/01 2018 sous le code :COOL03UN040120180001</i>	A. Merad
2023	Résolution de quelques problèmes da la physique mathématiques dans le cadre de la théorie fractionnaire, <i>agrée le 01/01 2023 sous le code :</i> <b>C00L03UN040120230005</b>	A. Merad
2023	Théorie quantique des champs et relations de quantification modifiées, <i>agrée le 01/01 2023 sous le code :</i> <b>B00L02UN040120230003</b>	M. Merad