

**Dr Mustapha AZREG-AÏNOU****(In Turkish Passport: Mustafa AZREG)**Başkent University, Faculty of Engineering, Bağlıca Campus,  
Eskişehir Yolu 18. Km, 06790 Ankara, Turkey.

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**CURRICULUM VITAE**

Married	Date of birth
2 children	February 28, 1962

**1) WORK EXPERIENCE****a) Başkent University, Turkey** (became “Doçent” (Associate Prof.) on January 10, 2007)

2001-Present
Lectures in Engineering Calculus, Differential Equations, Linear Algebra, Calculus I, II, III, Physics I, II

**b) Girne American University, North Cyprus**

1999-2001
Lectures in Calculus III (×3), Differential Equations (×3), Statistics (×4), Probability (×4), Algebra (×2), Advanced Mechanics (×3), Engineering Economy and cost Analysis (×2), Physics I (×3), Physics II (×3).

**c) Eastern Mediterranean University, North Cyprus**

1998-1999	1997-1998
Lectures in Thermodynamics, Physics I & Physics II	Lectures in Thermodynamics, Physics I & Physics II

**d) Nice University, France**

1994-95-1996
Tutorials in Electricity & Mechanics

Also, from 1993 to 1997 (in France): Organized private lessons in mathematics, electronics and physics (complex calculus, linear algebra, geometry, matrix theory, electric machinery, circuit theory, thermodynamics), for the very competitive sophomore students preparing the entrance examination for the École Normale in Paris.

**e) Constantine University, Algeria****--Senior Assistant**

1992-1993	1991-1992	1990-1991	1989-1990	1988-1989
Lectures in Complex Calculus, Special Relativity	Lectures in Complex Calculus, Special Relativity, Electromagnetism	Lectures in Complex Calculus, Matrix Theory, Special Relativity	Lectures in Special Relativity, Electromagnetism and Optics	Lectures in Complex Calculus, Matrix Theory, Special Relativity

**--As Assistant**

1987-1988	1986-1987	1985-1986
Supervised study of Mathematical Analysis	Supervised study of Mechanics and Electricity	Supervised study of Thermodynamics and Electricity

**f) Participation in University / Department / Thesis Committees**

1. Member of the Summer Session Practices Committee, Girne American University, North Cyprus, from June 2000 to September 2001.
2. Member of PhD Thesis Committee, Eastern Mediterranean University, North Cyprus, June 1998.
3. Member of Master Thesis Committee, Eastern Mediterranean University, North Cyprus, September 1998.
4. Member of Master Thesis Committee, Eastern Mediterranean University, North Cyprus, June 1999.
5. Member of the Administrative and Scientific Councils of the Institute of Physics, Constantine University, Algeria, from October 1 1990 to January 31 1992.
6. Head of Department (Mathematical Physics): from October 1 1990 to January 31 1992.
7. I organized a Fall School in Mathematical Physics, Institute of Physics, Constantine University, Algeria (November 1991).

**g) Teaching & Research:**

30 years of teaching and research at different universities (I have been teaching different courses of Physics and mathematics). Please see:

<http://orcid.org/0000-0002-3244-7195>

and

<https://www.webofscience.com/wos/author/record/2376731>

**h) Reviewing and Editorial Experience:**

85 Verified Peer Reviews and 1 Verified Editor Record (For more details please see:

<https://www.webofscience.com/wos/author/record/2376731>):

Verified Peer Reviews:

21 Classical and Quantum Gravity  
12 Physics of the Dark Universe  
7 Physica Scripta  
6 Symmetry  
5 Recent Advances in Electrical & Electronic Engineering  
5 The European Physical Journal C  
5 Universe  
4 Modern Physics Letters A  
3 Axioms  
3 Journal of King Saud University - Science  
2 Chinese Physics C  
2 IOP SciNotes  
2 International Journal of Modern Physics A  
2 Particles  
1 Annals of Physics  
1 Astronomy  
1 Chemical Industry & Chemical Engineering Quarterly

1 Frontiers in Physics  
1 General Relativity and Gravitation  
1 International Journal of Modern Physics D  
1 Punjab University Journal of Mathematics

Verified Editor Records:

1 Frontiers in Physics

## 2) PUBLICATIONS

1. M. Azreg-Aïnou, "Diffusion classique par un soliton wormhole de Kaluza-Klein", Magister thesis, Constantine University (1988).
2. M. Azreg-Aïnou and G. Clément, "The geodesics of the Kaluza-Klein wormhole soliton", *Gen. Relativ. Gravit.* **22**, 1119-1133 (1990). <http://dx.doi.org/10.1007/BF00759013>
3. M. Azreg-Aïnou and G. Clément, "Stability of the Kaluza-Klein wormhole soliton", *Gen. Relativ. Gravit.* **25**, 881-891 (1993). <http://dx.doi.org/10.1007/BF00759190>
4. M. Azreg-Aïnou, "Solutions stationnaires en théorie de Kaluza-Klein", gr-qc/9511021, a thesis submitted in conformity with the requirements for the degree of Docteur Es-Sciences at the Institut Non Linéaire de Nice (INLN), Nice-Sophia Antipolis University, France (1995). <http://xxx.lanl.gov/abs/gr-qc/9511021/>
5. M. Azreg-Aïnou and G. Clément, "Kaluza-Klein and Gauss-Bonnet cosmic strings", *Class. Quantum Grav.* **13**, 2635-2650 (1996). <http://dx.doi.org/10.1088/0264-9381/13/10/004>
6. M. Azreg-Aïnou, "Instability of Two-Dimensional Heterotic Stringy Black Holes", *Class. Quantum Grav.* **16**, 245-253 (1999). <http://dx.doi.org/10.1088/0264-9381/16/1/016>
7. M. Azreg-Aïnou, G. Clément, C.P. Constantinidis and J.C. Fabris, "Electrostatic solutions in Kaluza-Klein theory: geometry and stability", *Gravit. & Cosmo.* **6** (3), 207-218 (2000). <http://rgs.vniims.ru/gc.htm> and <http://rgs.vniims.ru/oldconts.htm>
8. M. Azreg-Aïnou, G. Clément, C.P. Constantinidis and J.C. Fabris, "Regularity and stability of electrostatic solutions in Kaluza-Klein theory", Proceedings of the 9<sup>th</sup> Marcel Grossmann Meeting on General Relativity, The University of Rome "La Sapienza", Part B, 1053-1054, World Scientific, Singapore, 2002. (978-981-238-010-4) On Recent Developments in Theoretical and Experimental General Relativity, Gravitation and Relativistic Field Theories. [http://dx.doi.org/10.1142/9789812777386\\_0158](http://dx.doi.org/10.1142/9789812777386_0158)
9. M. Azreg-Aïnou, "A theorem on the photographic process in Special Relativity. The train paradox revisited", *Europhys. Lett.* **62** (4), 459-465 (2003). <http://dx.doi.org/10.1209/epl/i2003-00335-x>
10. M. Azreg-Aïnou, "Low-temperature data for carbon dioxide", *Monatsh. Chem.*, **136** (12), 2017-2027 (2005). <http://dx.doi.org/10.1007/s00706-005-0370-3>
11. M. Azreg-Aïnou, A. Hüseyinov, and B. İbrahimoğlu, "Phase equilibrium and metastability of liquid benzene at high pressures". *J. Chem. Phys.*, **124**, 204505 (6pp) (2006). <http://dx.doi.org/10.1063/1.2198808>. Erratum: <http://dx.doi.org/10.1063/1.2345055>
12. M. Azreg-Aïnou, "Solid-liquid interfacial free energies of benzene", *J. Cryst. Growth*, **299** (1), 195-205 (2007). <http://dx.doi.org/10.1016/j.jcrysgro.2006.10.265>
13. M. Azreg-Aïnou, "Quadratic superconducting cosmic strings revisited", *Europhys. Lett.* **81** (6), 60003 (6pp) (2008). <http://dx.doi.org/10.1209/0295-5075/81/60003>
14. M. Azreg-Aïnou, "A developed new algorithm for evaluating Adomian polynomials", *CMES: Computer Modeling in Engineering & Sciences*, **42** (1), 1-18 (2009). <http://dx.doi.org/10.3970/cmcs.2009.042.001>
15. M. Azreg-Aïnou, "Comment on 'The Newtonian Force Experienced by a Point Mass Near a Finite Cylindrical Source'", *Class. Quantum Grav.* **26**, 158001 (2pp) (2009). <http://dx.doi.org/10.1088/0264-9381/26/15/158001>
16. M. Azreg-Aïnou, in "Methods in Science and Engineering, Analytic Methods, Volume 1", Chapter 5, a Birkhäuser book (Boston), Editors: Constanda, C.; Pérez, M.E. (2010). [http://dx.doi.org/10.1007/978-0-8176-4899-2\\_5](http://dx.doi.org/10.1007/978-0-8176-4899-2_5) (<http://www.springer.com/birkhauser/mathematics/book/978-0-8176-4898-5>).
17. M. Azreg-Aïnou, "Developed Adomian method for quadratic Kaluza-Klein relativity", *Class. Quantum Grav.* **27**, 015012 (16pp) (2010). <http://dx.doi.org/10.1088/0264-9381/27/1/015012>
18. M. Azreg-Aïnou, "Selection criteria for two-parameter solutions to scalar-tensor gravity", *Gen. Relativ. Gravit.* **42** (6), 1427-1456 (2010). <http://dx.doi.org/10.1007/s10714-009-0915-6>

19. M. Azreg-Aïnou, G. Clément, J.C. Fabris and Manuel E. Rodrigues, "Phantom black holes and sigma models", *Phys. Rev. D* **83**, 124001 (12pp) (2011). <http://dx.doi.org/10.1103/PhysRevD.83.124001>
20. M. Azreg-Aïnou, "Comment on 'Spinning loop black holes'", *Class. Quantum Grav.* **28**, 148001 (2pp) (2011). <http://dx.doi.org/10.1088/0264-9381/28/14/148001>
21. M. Azreg-Aïnou, G. Clément and Dmitri V. Gal'tsov, "All extremal instantons in Einstein-Maxwell-dilaton-axion theory", *Phys. Rev. D* **84**, 104042 (30pp) (2011). <http://dx.doi.org/10.1103/PhysRevD.84.104042>
22. M. Azreg-Aïnou, "Rotation and twist regular modes for trapped ghosts", *Gen. Relativ. Gravit.* **44** (9), 2299-2312 (2012). <http://dx.doi.org/10.1007/s10714-012-1390-z>
23. M. Azreg-Aïnou, "Light paths of normal and phantom Einstein-Maxwell-dilaton black holes", *Phys. Rev. D* **87** (2), 024012 (20pp) (2013). <http://prd.aps.org/abstract/PRD/v87/i2/e024012>
24. M. Azreg-Aïnou, "Phase-space analysis of the cosmological 3-fluid problem: families of attractors and repellers", *Class. Quantum Grav.* **30** (20), 205001 (17pp) (2013). <http://dx.doi.org/10.1088/0264-9381/30/20/205001>
25. M. Azreg-Aïnou and Manuel E. Rodrigues, "Thermodynamical, geometrical and Poincaré methods for charged black holes in presence of quintessence", *JHEP09* (2013) 146 (26pp). [http://dx.doi.org/10.1007/JHEP09\(2013\)146](http://dx.doi.org/10.1007/JHEP09(2013)146)
26. M. Azreg-Aïnou, "Numerical solutions to the cosmological 3-fluid problem", *Gen. Relativ. Gravit.* **45** (12), 2635–2646 (2013). <http://dx.doi.org/10.1007/s10714-013-1607-9>
27. M. Azreg-Aïnou, "Regular and conformal regular cores for static and rotating solutions", *Phys. Lett. B* **730**, 95–98 (2014). <http://dx.doi.org/10.1016/j.physletb.2014.01.041>
28. M. Azreg-Aïnou, "On 'The conformal metric structure of Geometrothermodynamics': Generalizations", *J. Math. Phys.* **55** (3), 033505 (4pp) (2014). <http://dx.doi.org/10.1063/1.4868482>
29. M. Azreg-Aïnou, "From static to rotating to conformal static solutions: Rotating imperfect fluid wormholes with(out) electric or magnetic field", *Eur. Phys. J. C* **74** (05), 2865 (11pp) (2014). <http://dx.doi.org/10.1140/epjc/s10052-014-2865-8>
30. M. Azreg-Aïnou, "Geometrothermodynamics: comments, criticisms, and support", *Eur. Phys. J. C* **74** (06), 2930 (8pp) (2014). <http://dx.doi.org/10.1140/epjc/s10052-014-2930-3>
31. M. Azreg-Aïnou, G.T. Marques and M.E. Rodrigues, "Phantom black holes and critical phenomena", *JCAP07* (2014) 036 (23pp). <http://dx.doi.org/10.1088/1475-7516/2014/07/036>
32. M. Azreg-Aïnou, "Generating rotating regular black hole solutions without complexification", *Phys. Rev. D* **90**, 064041 (13pp) (2014). <http://dx.doi.org/10.1103/PhysRevD.90.064041>
33. M. Azreg-Aïnou, "Charged de Sitter-like black holes: quintessence-dependent enthalpy and new extreme solutions", *Eur. Phys. J. C* **75** (01), 34 (13pp) (2015). <http://dx.doi.org/10.1140/epjc/s10052-015-3258-3>
34. M. Azreg-Aïnou, "Black hole thermodynamics: No inconsistency via the inclusion of the missing P-V terms", *Phys. Rev. D* **91** (06), 064049 (16pp) (2015). <http://dx.doi.org/10.1103/PhysRevD.91.064049>
35. M. Azreg-Aïnou, "Confined-exotic-matter wormholes with no gluing effects -- Imaging supermassive wormholes and black holes", *JCAP07* (2015) 037 (24pp). <http://dx.doi.org/10.1088/1475-7516/2015/07/037>
36. M. Azreg-Aïnou, "Wormhole solutions sourced by fluids, I: Two-fluid charged sources", *Eur. Phys. J. C* **76** (01), 3 (13pp) (2016). <http://dx.doi.org/10.1140/epjc/s10052-015-3835-5>
37. M. Azreg-Aïnou, "Wormhole solutions sourced by fluids, II: three-fluid two-charged sources", *Eur. Phys. J. C* **76** (01), 7 (15pp) (2016). <http://dx.doi.org/10.1140/epjc/s10052-015-3836-4>
38. A.K. Ahmed, M. Azreg-Aïnou, S. Bahamonde, S. Capozziello and M. Jamil, "Astrophysical flows near f(T) gravity black holes", *Eur. Phys. J. C* **76** (05), 269 (13pp) (2016). <http://dx.doi.org/10.1140/epjc/s10052-016-4118-5>
39. A.K. Ahmed, M. Azreg-Aïnou, M. Faizal and M. Jamil, "Cyclic and heteroclinic flows near general static spherically symmetric black holes", *Eur. Phys. J. C* **76** (05), 280 (21pp) (2016). <http://dx.doi.org/10.1140/epjc/s10052-016-4112-y>
40. M. Azreg-Aïnou, "Vacuum and nonvacuum black holes in a uniform magnetic field", *Eur. Phys. J. C* **76** (07), 414 (08pp) (2016). <http://dx.doi.org/10.1140/epjc/s10052-016-4259-6>
41. M. Azreg-Aïnou, "Cyclic and heteroclinic flows near general static spherically symmetric black holes: semi-cyclic flows – addendum and corrigendum", *Eur. Phys. J. C* **77** (01), 36 (06pp) (2016). <http://dx.doi.org/10.1140/epjc/s10052-017-4613-3>
42. M. Azreg-Aïnou, "Accretion of rotating fluids onto stationary solutions", *Phys. Rev. D* **95** (08), 083002 (12pp) (2017). Cited by 1 record. <http://dx.doi.org/10.1103/PhysRevD.95.083002>
43. M. Azreg-Aïnou, S. Bahamonde and M. Jamil, "Strong gravitational lensing by a charged Kiselev black hole", *Eur. Phys. J. C* **77** (06), 414 (13pp) (2017). <http://dx.doi.org/10.1140/epjc/s10052-017-4969-4>

44. M. Azreg-Aïnou, "Smoothed one-core and core–multi-shell regular black holes", *Eur. Phys. J. C* **78** (06), 476 (13pp) (2018). <http://dx.doi.org/10.1140/epjc/s10052-018-5966-y>
45. M. Azreg-Aïnou, A.K. Ahmed and M. Jamil, "Spherical accretion by normal and phantom Einstein--Maxwell--dilaton black holes", *Class. Quantum Grav.* **35** (23), 235001 (15pp) (2018). <http://dx.doi.org/10.1088/1361-6382/aae997>
46. M. Azreg-Aïnou, "Epicyclic oscillations of charged particles in stationary solutions immersed in a magnetic field with application to the Kerr-Newman black hole", *Int. J. Mod. Phys. D* **28**, 1950013 (21pp) (2019). <https://doi.org/10.1142/S0218271819500135>
47. M. Azreg-Aïnou, S. Haroon, M. Jamil and M. Rizwan, "Rotating normal and phantom Einstein--Maxwell--dilaton black holes: Geodesic analysis", *Int. J. Mod. Phys. D* **28**, 1950063 (26pp) (2019). <https://doi.org/10.1142/S0218271819500639>
48. M. Azreg-Aïnou and B. İbrahimoğlu, "High-pressure effects on the benzene pre-crystallization metastable states", *Eur. Phys. J. E* **42**, 96 (10pp) (2019). <https://doi.org/10.1140/epje/i2019-11863-2>
49. M. Azreg-Aïnou, "Cylindrically symmetric static n-dimensional (un)charged (anti-)de Sitter black holes in generic f(T) gravity", *EPL* **129**, 20003 (7pp) (2020). <https://doi.org/10.1209/0295-5075/129/20003>
50. M. Azreg-Aïnou, M. Jamil and K. Lin, "Gyroscope precession frequency analysis of a five dimensional charged rotating Kaluza-Klein black hole", *Chinese Phys. C* **44** (6), 065101 (11pp) (2020). <https://doi.org/10.1088/1674-1137/44/6/065101>
51. C. Liu, T. Zhu, Q. Wu, K. Jusufi, M. Jamil, M. Azreg-Aïnou and A. Wang, "Shadow and Quasinormal Modes of a Rotating Loop Quantum Black Hole", *Phys. Rev. D* **101** (8), 084001 (21pp) (2020). <https://doi.org/10.1103/PhysRevD.101.084001>
52. M. Azreg-Aïnou, "Dynamical and static solutions to R = 0 scalar-tensor theory", *EPL* **130**, 60003 (7pp) (2020). <https://doi.org/10.1209/0295-5075/130/60003>
53. J. Zhu, A.B. Abdikamalov, D. Ayzenberg, M. Azreg-Aïnou, C. Bambi, M. Jamil, S. Nampalliwar, A. Tripathi and M. Zhou, "X-ray reflection spectroscopy with Kaluza–Klein black holes", *Eur. Phys. J. C* **80**, 622 (09pp) (2020). <http://dx.doi.org/10.1140/epjc/s10052-020-8198-x>
54. M. Azreg-Aïnou, Z. Chen, B. Deng, M. Jamil, T. Zhu, Q. Wu and Y-K. Lim, "Orbital mechanics and quasiperiodic oscillation resonances of black holes in Einstein-Æther theory", *Phys. Rev. D* **102**, 044028 (21pp) (2020). <https://doi.org/10.1103/PhysRevD.102.044028>
55. M. Azreg-Aïnou, "On 'rotating charged AdS solutions in quadratic f (T) gravity': new rotating solutions", *Eur. Phys. J. C* **80**, 998 (05pp) (2020). <http://dx.doi.org/10.1140/epjc/s10052-020-08566-8>
56. M. Ghasemi-Nodehi, M. Azreg-Aïnou, K. Jusufi and M. Jamil, "Shadow, quasinormal modes, and quasiperiodic oscillations of rotating Kaluza-Klein black holes", *Phys. Rev. D* **102**, 104032 (16pp) (2020). <https://doi.org/10.1103/PhysRevD.102.104032>
57. K. Jusufi, M. Azreg-Aïnou, M. Jamil, S-W Wei, Q. Wu and A. Wang, "Quasinormal modes, quasiperiodic oscillations, and the shadow of rotating regular black holes in nonminimally coupled Einstein-Yang-Mills theory", *Phys. Rev. D* **103**, 024013 (24pp) (2021). <https://doi.org/10.1103/PhysRevD.103.024013>
58. M. Azreg-Aïnou, "Rotating cosmological cylindrical wormholes in GR and TEGR sourced by anisotropic fluids", *Physics of the Dark Universe* **32**, 100802 (6pp) (2021). <http://dx.doi.org/10.1016/j.dark.2021.100802>
59. F. Atamurotov, K. Jusufi, M. Jamil, A. Abdujabbarov and M. Azreg-Aïnou, "Axion-plasmon or magnetized plasma effect on an observable shadow and gravitational lensing of a Schwarzschild black hole", *Phys. Rev. D* **104**, 064053 (15pp) (2021). <https://doi.org/10.1103/PhysRevD.104.064053>
60. K. Jusufi, M. Azreg-Aïnou, M. Jamil and E.N. Saridakis, "Constraints on Barrow Entropy from M87\* and S2 Star Observations", *Universe* **8**(2), 102 (17pp) (2022). <https://doi.org/10.3390/universe8020102>
61. K. Jusufi, M. Azreg-Aïnou, M. Jamil and T. Zhu, "Constraining the generalized uncertainty principle through black hole shadow, S2 star orbit, and quasiperiodic oscillations", *Int. J. Geom. Methods Mod. Phys.* **19**(5), 2250068 (25pp) (2022). <https://doi.org/10.1142/S0219887822500682>
62. M. Azreg-Aïnou, "Comment on 'Quantum gravity evolution in the Hawking radiation of a rotating regular Hayward black hole'", *Physics of the Dark Universe* **36**, 101003 (2pp) (2022). <https://doi.org/10.1016/j.dark.2022.101003>
63. K. Jusufi, M. Azreg-Aïnou, M. Jamil and Q. Wu, "Equatorial and Polar Quasinormal Modes and Quasiperiodic Oscillations of Quantum Deformed Kerr Black Hole", *Universe* **8**(4), 210 (21pp) (2022). <https://doi.org/10.3390/universe8040210>
64. K. Jusufi, S. Kumar, M. Azreg-Aïnou, M. Jamil, Q. Wu and C. Bambi, "Constraining wormhole geometries using the orbit of S2 star and the Event Horizon Telescope", *Eur. Phys. J. C* **82**, 633 (05pp) (2022). <https://doi.org/10.1140/epjc/s10052-022-10603-7>

65. M. Azreg-Aïnou, "Comment on 'Gravitational Analysis of Rotating Charged Black-Hole-Like Solution in Einstein–Gauss–Bonnet Gravity'", *Ann. Phys. (Berlin)* **2022**, 2200296 (2pp) (2022). <https://doi.org/10.1002/andp.202200296>
66. H.K. Nguyen and M. Azreg-Aïnou, "Traversable Morris–Thorne–Buchdahl wormholes in quadratic gravity", *Eur. Phys. J. C* **83**, 626 (11pp) (2023). <https://doi.org/10.1140/epjc/s10052-023-11805-3>
67. S. Shaymatov, B. Ahmedov, M. De Laurentis, M. Jamil, Q. Wu, A. Wang and M. Azreg-Aïnou, "On the Parameters of the Spherically Symmetric Parameterized Rezzolla–Zhidenko Spacetime through Solar System Tests, the Orbit of the S2 Star about Sgr A\*, and Quasiperiodic Oscillations", *ApJ* **959**, 6 (14pp) (2023). <https://doi.org/10.3847/1538-4357/acfcba>
68. M. Azreg-Aïnou and H.K. Nguyen, "A stationary axisymmetric vacuum solution for pure  $R^2$  gravity", *Phys. Scr.* **98**, 125025 (11pp) (2023). <https://doi.org/10.1088/1402-4896/ad0eb8>
- 69.

### 3) HIGHER EDUCATION

June 1985	June 1986	June 1988	November 1995
Diploma of Higher Education (D.E.S) in Mathematical Physics, Constantine University, Algeria	Advanced Diploma of Higher Education in Mathematical Physics (post-graduation first year), Constantine University, Algeria (extended by lessons in psycho-pedagogy)	Magister Thesis in Mathematical Physics, Constantine University, Algeria;  Title of Thesis: "Diffusion classique par un soliton wormhole de Kaluza-Klein"  Thesis advisor: Prof. Gérard Clément	Doctorate in Physical Sciences (Applied Mathematics), Institut Non Linéaire de Nice (INLN), Nice-Sophia Antipolis University, France;  Title of Thesis: "Stationary solutions in Kaluza-Klein Theory"  Thesis advisor: Prof. Gérard Clément

### 4) PRESENTATIONS-CONFERENCES

1. M. Azreg-Aïnou, "Geodesics of Kaluza-Klein wormhole soliton", Constantine University (Mathematical Physics), 1988.
2. M. Azreg-Aïnou, "Stability analysis in General Relativity", Constantine University, 1991.
3. M. Azreg-Aïnou, "Kaluza-Klein and Gauss-Bonnet cosmic strings", Nice University, France, 1995
4. M. Azreg-Aïnou, "Geometry in Einstein's General Relativity", International House, Nice, France, 1995.
5. M. Azreg-Aïnou, "The mystery of black holes", Eastern Mediterranean University, Cyprus, 1998.
6. M. Azreg-Aïnou, "Geometry of black holes", Eastern Mediterranean University, Cyprus, 1999.
7. M. Azreg-Aïnou, "Introduction to General Relativity", Girne American University, Cyprus, 2000.
8. M. Azreg-Aïnou, G. Clément, C.P. Constantinidis and J.C. Fabris, "Regularity and stability of electrostatic solutions in Kaluza-Klein theory", Oral Contribution to the 9<sup>th</sup> Marcel Grossmann Meeting on General Relativity, The University of Rome "La Sapienza", Rome, Italy, 2000 (<http://www.icra.it/MG/>).
9. M. Azreg-Aïnou, "Non-Euclidean Geometry", Başkent University, Ankara, Turkey, 2001.
10. M. Azreg-Aïnou, "As the temperature & pressure drop!", Oral Contribution at the 18<sup>th</sup> International Conference on Mathematics, Chemistry, and Computer Sciences (MATH/CHEM/COMP 2003), Dubrovnik, Croatia, June 23 – June 28, 2003. ([http://mcc.irb.hr/mcc\\_03/index.html](http://mcc.irb.hr/mcc_03/index.html)).
11. M. Azreg-Aïnou, "Properties of carbon dioxide at low temperatures", Oral Contribution to the 8<sup>th</sup> International Conference on Carbon Dioxide Utilization, Oslo, Norway, June 20 – 23, 2005 (<http://www.kjemi.uio.no/iccdviii>).

12. M. Azreg-Aïnou, A. Hüseyinov and B. İbrahimoglu, "Fuel Cells with Spiral Conduits", Oral Contribution to the International Hydrogen Energy Congress & Exhibition, Istanbul, Turkey, July 13 – 15 2005 (<http://www.ihec2005.org>).
13. M. Azreg-Aïnou, "Nucleation of supercooled liquid benzene at high pressures," Oral Contribution to the EMLG/JMLG Annual Meeting: Liquid System under Extreme Conditions, Barcelona, Spain, September 2006 (<http://congress.cimne.upc.es/emlg06/frontal/default.asp>).
14. M. Azreg-Aïnou, "Exact 5-Dimensional Cosmic String Solutions," Oral Contribution to the 2<sup>nd</sup> International Conference on Dynamics and Thermodynamics of Black Holes and Naked Singularities II, Milan, Italy, May 2007 (<http://www.mate.polimi.it/bh2/>).
15. M. Azreg-Aïnou, "Solving a class of nonlinear matrix differential equations with application to general relativity," Oral Contribution to the 10<sup>th</sup> International Conference on Integral Methods in Science and Engineering, Santandar, Spain, July 07 – 10 2008 (<http://www.imse08.unican.es/presentation.htm>).
16. M. Azreg-Aïnou, "A compact Mathematica program for reduced and Adomian polynomials," Oral Contribution to the International Workshop on Nonlinear and Modern Mathematical Physics, Beijing, China, July 2009 (I declined).
17. M. Azreg-Aïnou, G. Clément and Dmitri V. Gal'tsov, "Multi-instantons in Euclidean Einstein-Maxwell-dilaton-axion gravity," Oral Contribution to the 19<sup>th</sup> International Conference on General Relativity and Gravitation, Mexico City, Mexico, July 2010 (<http://www.gr19.com/>).
18. M. Azreg-Aïnou, "Benzene solid-liquid interface at high pressures," Oral Contribution to the Mathematical Modeling and Computational Physics (MMCP 2011), Stará Lesná, High Tatra Mountains, Slovakia, July 2011 (<http://people.tuke.sk/jan.busa/mmcp2011/>).
19. M. Azreg-Aïnou, "A compact Mathematica program for reduced and Adomian polynomials," Oral Contribution to the International Congress on Computational and Applied Mathematics, Ghent, Belgium, July 2012 (<http://www.iccam.ugent.be/>).

## 5) MEMBERSHIP

Life membership of the "Australasian Society for General Relativity and Gravitation"  
(<http://www2.phys.canterbury.ac.nz/ASGRG/>)

## 6) COMPUTER USE

For my research, I am using LaTeX, MATHEMATICA and other programs (Matlab, Excel, Word, PowerPoint etc). I am also familiar with Unix.

## 7) SECTIONS OF INTEREST

Differential Equations  
Astronomy and Astrophysics  
Modern Cosmology  
General Physics  
Electromagnetism  
Chemical Physics