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Emploi

Namur Institute for Complex Systems

Namur, Belgique
21 avr. 2010 → present

Chargé de Recherches FNRS

Fonds de la Recherche Scientifique F.R.S.-FNRS
Brussels, Belgique
1 oct. 2006 → 30 sept. 2009

Post-doctorat

LUTH, Observatoire de Paris, CNRS UMR 8102, Université Paris Diderot
Meudon Cedex, France
1 janv. 2005 → 31 déc. 2006

Aspirant du FNRS

Fonds de la Recherche Scientifique F.R.S.-FNRS
Brussels, Belgique
1 oct. 2002 → 30 sept. 2004

Boursier FRIA

Fund for Research Training in Industry and Agriculture (FRIA)
Brussels, Belgique
1 oct. 2000 → 30 sept. 2002

CERN summer student program

CERN
Geneva, Suisse
30 juin 1999 → 10 sept. 1999

Diplômes

Docteur ès sciences, Instabilités gravitationnelles de champs de Yang-Mills et de champs scalaires dans l'univers primordial, Universite de Namur
Date d'octroi: 30 juin 2004

Maîtrise de Physique Mathématique, Université Catholique de Louvain
Date d'octroi: 30 sept. 2001

Maîtrise de Physique, Grade: La plus grande distinction avec les félicitations du Jury, Universite de Namur
Date d'octroi: 30 juin 2000

Indicateurs bibliométriques

25 articles publiés ; citations : 452 ; h-index: 14 (Source: scopus)

Prix

Namurois de l'année 2016 (catégorie sciences)
Fuzfa, Andre (Bénéficiaire), 2016

Prix de vulgarisation scientifique de la Société des Sciences, des Arts et des Lettres du Hainaut
Fuzfa, Andre (Bénéficiaire), 2015

Prix Wernaers 2013 pour la diffusion des connaissances et la vulgarisation scientifique
Fuzfa, Andre (Bénéficiaire), 2013

Résultats de recherche

On the diversity of stationary cosmologies in the first half of the twentieth century
Fuzfa, A. & Dubois, E-A., 1 janv. 2019, Dans: General Relativity and Gravitation. 51, 1, 18 p., 11.

DEVICES FOR THE DIRECTIONAL EMISSION AND RECEPTION OF GRAVITATIONAL WAVES

Fuzfa, A., 4 juil. 2019, CIB n ° G01V 7/00 2006.1, H02N 11/00 2006.1, Brevet n ° WO/2019/129746, Date de priorité 27 déc. 2017, Numéro de priorité EP20170210675

Mimicking Dark Energy with the backreactions of gigaparsec inhomogeneities
Clesse, S. & Roisin, A., 23 févr. 2017, Dans: ArXiv pre-print.

Probing modified gravity with atom-interferometry: A numerical approach

Schlogel, S., Fuzfa, A. & Clesse, S., 19 mai 2016, Dans: Physical Review D - Particles, Fields, Gravitation and Cosmology. 93, 10, 13 p., 104036.

Numerical forecasts for lab experiments constraining modified gravity: The chameleon model

Schlogel, S., Clesse, S. & Fuzfa, A., 1 janv. 2018, *14th Marcel Grossman Meeting On Recent Developments in Theoretical and Experimental General Relativity, Astrophysics and Relativistic Field Theories, Proceedings*. Bianchi, M., Jantzen, R. T., Ruffini, R. & Ruffini, R. (eds.). World Scientific Publishing Co Pte Ltd, p. 1259-1264 6 p. (The Fourteenth Marcel Grossmann Meeting).

Nonlinear cosmological spherical collapse of quintessence

Rekier, J., Fuzfa, A. & Cordero-Carrión, I., 17 févr. 2016, Dans: Physical Review D - Particles, Fields, Gravitation and Cosmology. 93, 4, 13 p., 043533.

How current loops and solenoids curve spacetime

Fuzfa, A., 11 janv. 2016, Dans: Physical Review D - Particles, Fields, Gravitation and Cosmology. 93, 2, 11 p., 024014.

Fully relativistic non-linear cosmological evolution in spherical symmetry using the BSSN formalism

Rekier, J., Cordero-Carrión, I. & Fuzfa, A., 16 janv. 2015, Dans: Phys.Rev.D. 91, 024025

Particlelike solutions in modified gravity: The Higgs monopole

Schlogel, S., Rinaldi, M., Staelens, F. & Fuzfa, A., 20 août 2014, Dans: Physical Review D - Particles, Fields, Gravitation and Cosmology. 90, 4, 19 p., 044056.

The Jungle Universe: coupled cosmological models in a Lotka–Volterra framework

Perez, J., Fuzfa, A., Carletti, T., Melot, L. & Guedezounme, S. L., 1 mai 2014, Dans: General Relativity and Gravitation. 46, 4, p. 1753 23 p., 46.

Are anomalous cosmic flows a challenge for LCDM?

Bouillot, V., Alimi, J. M., Rasera, Y. & Fuzfa, A., 2014, *Springer Proceedings in Physics*. Springer Science and Business Media, LLC, Vol 145. p. 89-95 7 p.

Particlelike distributions of the Higgs field nonminimally coupled to gravity

Füzfa, A., Rinaldi, M. & Schrögel, S., 17 sept. 2013, Dans: Physical review letters. 111, 121103, 121103.

Radioscience simulations in general relativity and in alternative theories of gravity

Hees, A., Lamine, B., Reynaud, S., Jaekel, M-T., Le Poncin-Lafitte, C., Lainey, V., Füzfa, A., Courty, J-M., Dehant, V. & Wolf, P., 7 déc. 2012, Dans: Classical and Quantum Gravity . 29, 23, p. 5027

Fab Four: When John and George play gravitation and cosmology

Bruneton, J-P., Rinaldi, M., Kanfon, A., Hees, A., Schrögel, S. & Füzfa, A., 4 nov. 2012, Dans: Advances in Astronomy. 2012, 430694

Combined cosmological and solar system constraints on chameleon mechanism

Hees, A. & Füzfa, A., 10 mai 2012, Dans: Physical Review D. 85, 10, p. 103005 21 p.

Imprints of dark energy on cosmic structure formation-II. Non-universality of the halo mass function

Courtin, J., Rasera, Y., Alimi, J-M., Corasaniti, P-S., Füzfa, A. & Boucher, V., 1 janv. 2011, Dans: Monthly Notices of the Royal Astronomical Society. 410, 3, p. 1911-1931 21 p.

Radioscience simulations in General Relativity and in alternative theories of gravity

Hees, A., Wolf, P., Lamine, B., Reynaud, S., Jaekel, M-T., Le Poncin-Lafitte, C., Lainey, V., Füzfa, A. & Dehant, V., 2011, *Proceedings of the XLVIIth Rencontres de Moriond and GPhys Colloquium 2011: Gravitational Waves and Experimental Gravity*. Vol 1105. p. 259 4 p.

Dark matter and dark energy from gravitational symmetry breaking

Füzfa, A. & Alimi, J-M., 1 janv. 2010, *AIP Conference Proceedings*. Vol 1241. p. 854-865 12 p.

Imprints of dark energy on cosmic structure formation - I. Realistic quintessence models and the non-linear matter power spectrum

Alimi, J-M., Füzfa, A., Rasera, Y., Courtin, J., Corasaniti, P-S. & Boucher, V., 1 janv. 2010, Dans: Monthly Notices of the Royal Astronomical Society. 401, 2, p. 775-790 16 p.

Imprints of dark energy on structure formation: No universality in mass functions?

Courtin, J., Alimi, J-M., Rasera, Y., Corasaniti, P-S., Füzfa, A. & Boucher, V., 1 janv. 2010, *AIP Conference Proceedings*. Vol 1241. p. 804-810 7 p.

Introducing the Dark Energy Universe Simulation Series (DEUSS)

Rasera, Y., Alimi, J-M., Courtin, J., Roy, F., Corasaniti, P-S., Füzfa, A. & Boucher, V., 1 janv. 2010, *AIP Conference Proceedings*. Vol 1241. p. 1134-1139 6 p.

Invisible universe: Toward a new cosmological paradigm

Alimi, J-M. & Füzfa, A., 1 janv. 2010, *AIP Conference Proceedings*. Vol 1241.

The abnormally weighting energy hypothesis: The origin of the cosmic acceleration

Alimi, J-M. & Füzfa, A., 1 janv. 2010, *AIP Conference Proceedings*. Vol 1241. p. 690-699 10 p.

Invisible Universe: Proceedings of the Conference

Alimi, J-M. & Füzfa, A., 2010, American institute of physics.

An introduction to Non-Universal Tensor-Scalar Gravitation: "Geometry, Topology, QFT and Cosmology", Eds. Hermann, Paris, 2008

Füzfa, A. & Alimi, J-M., 2008

The Abnormally Weighting Energy Hypothesis: the Missing Link between Dark Matter and Dark Energy

Füzfa, A., 2008, Dans: Journal of Cosmology and Astroparticle Physics. 0809:014, 24 p., 0809:014.

Toward a Unified Description of Dark Energy and Dark Matter from the Abnormally Weighting Energy Hypothesis
Fuzfa, A. & -M. Alimi, J., 19 févr. 2007, Dans: Physical Review D - Particles, Fields, Gravitation and Cosmology. 75, 17 p., 123007.

An Awesome Hypothesis for Dark Energy: The Abnormally Weighting Energy

Fuzfa, A. & Alimi, J-M., 15 févr. 2007, *Proceedings of the Eleventh Marcel Grossmann Meeting on general relativity: On Recent Developments in Theoretical and Experimental General Relativity, Gravitation and Relativistic Field Theories*. Kleinert, H., Jantzen, R. T. & Ruffini, R. (eds.). World Scientific publishing, p. 1785-1787

Some impacts of quintessence models on cosmic structure formation

Alimi, J-M. & Fuzfa, A., 9 nov. 2006, Dans: AIP Conference Proceedings. 861, p. 858-866

Non-Abelian Einstein-Born-Infeld-Dilaton Cosmology

Fuzfa, A. & -M. Alimi, J., 16 nov. 2005, Dans: Phys.Rev.D. 73, 31 p., 023520.

Is Dark Energy Abnormally Weighting?

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Dark Energy as a Born-Infeld Gauge Interaction Violating the Equivalence Principle

Fuzfa, A. & -M. Alimi, J., 25 avr. 2006, Dans: Physical review letters. 97, 5 p., 061301.

Albert Einstein Century International Conference: American Institute of Physics Conference Proceedings 861, 1-1248 (2006).

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Is Dark Energy Abnormally Weighting? Proceedings of the SF2A 2006 Conference, held in Paris, France, June 2006, astro-ph/0609099

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<http://media4.obspm.fr/public/IUFM/chapitre3/chapitre3.html>

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Le modèle standard du Big Bang. Vers une théorie exhaustive de l'Univers ? Ciel et Terre, Vol. 120 n°5, 2004.
Fuzfa, A., 2004

Quintessence and ghost: influence of the assumptions: Gravitation & Cosmology 11 (2005), 105-110.
Fay, S., Alimi, J-M. & Fuzfa, A., 2004

Gravitational instability of Yang-Mills cosmologies

Fuzfa, A., 21 nov. 2003, Dans: Classical and Quantum Gravity . 20, 22, p. 4753-4774 22 p.

"Evolution of Density Fluctuations in a Universe Dominated by su(2)-Valued Yang-Mills Fields"

Lambert, D. & Fuzfa, A., 2003, *Astronomy, Cosmology and Fundamental Physics (Proceedings of the ESO/CERN/ESA Symposium Held in Garching, Germany, 4-7 March 2002): Proceedings of the ESO/CERN/ESA Symposium Held in Garching, Germany, 4-7 March 2002*. Shaver, P. A., DiLella, L. & Giménez, A. (eds.). Berlin: Springer Science and Business Media, Vol 1. p. 446-448 3 p.

Some examples of exponentially harmonic maps

D Kanfon, A., Fuzfa, A. & Lambert, D., 15 mai 2002, Dans: Journal of Physics A. 35, p. 7629-7639 11 p.

The Lemaitre-Schwarzschild Problem Revisited

Fuzfa, A., Gerard, J-M. & Lambert, D., 2002, Dans: General Relativity and Gravitation. 34, p. 1411-1422

"A Toy Model for a Cosmologically Active Body": (numéro spécial en hommage au Professeur Jacques Demaret, Ulg).
Moussiaux, A., Lambert, D. & Fuzfa, A., 2001, Dans: Revue des Questions Scientifiques. 172, p. 393-407

About the Use of a Neural Network in the Analysis of $e^+ e^- \rightarrow Z0Z0 \rightarrow qq\bar{q}$: CERN: DELPHI 2000-026 PHYS851
Füzfa, A. & Jacobsson, R., 2000, CERN.