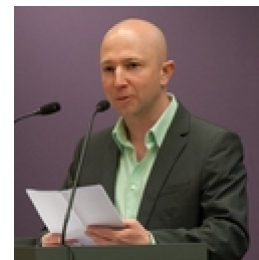


Pr. Dr. André Füzfa  
Namur Institute for Complex Systems  
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## Employment

### **Namur Institute for Complex Systems**

University of Namur

Belgium

21 Apr 2010 → present

### **FNRS Post-doctoral Fellow**

Fonds de la Recherche Scientifique F.R.S.-FNRS

Brussels, Belgium

1 Oct 2006 → 30 Sep 2009

### **Post-doctorate**

LUTH, Observatoire de Paris, CNRS UMR 8102, Université Paris Diderot

Meudon Cedex, France

1 Jan 2005 → 31 Dec 2006

### **FNRS Research Fellow**

Fonds de la Recherche Scientifique F.R.S.-FNRS

Brussels, Belgium

1 Oct 2002 → 30 Sep 2004

### **FRIA Research Fellow**

Fund for Research Training in Industry and Agriculture (FRIA)

Brussels, Belgium

1 Oct 2000 → 30 Sep 2002

### **CERN summer student program**

CERN

Geneva, Switzerland

30 Jun 1999 → 10 Sep 1999

## Qualifications

Doctor of Science, University of Namur

Master of Mathematical Physics, Université Catholique de Louvain

Master of Physics, University of Namur

## Indicateurs bibliométriques

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

## Prizes

### **Namurois de l'année 2016 (catégorie sciences)**

André Fuzfa (Recipient), 2016

**Prix de vulgarisation scientifique de la Société des Sciences, des Arts et des Lettres du Hainaut**  
André Fuzfa (Recipient), 2015

**Prix Wernaers 2013 pour la diffusion des connaissances et la vulgarisation scientifique**  
André Fuzfa (Recipient), 2013

## Research output

### **On the diversity of stationary cosmologies in the first half of the twentieth century**

Fuzfa, A. & Dubois, E-A., 1 Jan 2019, In : *General Relativity and Gravitation*. 51, 1, 18 p., 11.

### **DEVICES FOR THE DIRECTIONAL EMISSION AND RECEPTION OF GRAVITATIONAL WAVES**

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### **Mimicking Dark Energy with the backreactions of gigaparsec inhomogeneities**

Clesse, S., Roisin, A. & Füzfa, A., 22 Feb 2017, In : *Physical Review D - Particles, Fields, Gravitation and Cosmology*.

### **Probing modified gravity with atom-interferometry: A numerical approach**

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

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

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

### **Nonlinear cosmological spherical collapse of quintessence**

Rekier, J., Füzfa, A. & Cordero-Carrión, I., 17 Feb 2016, In : *Physical Review D - Particles, Fields, Gravitation and Cosmology*. 93, 4, 13 p., 043533.

### **How current loops and solenoids curve spacetime**

Füzfa, A., 11 Jan 2016, In : *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 Jan 2015, In : *Phys.Rev.D*. 91, 024025

### **Particlelike solutions in modified gravity: The Higgs monopole**

Schlogel, S., Rinaldi, M., Staelens, F. & Fuzfa, A., 20 Aug 2014, In : *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., Füzfa, A., Carletti, T., Melot, L. & Guedezounme, S. L., 1 May 2014, In : *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. & Füzfa, 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. & Schlögel, S., 17 Sep 2013, In : *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 Dec 2012, In : *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., Schlögel, S. & Fuzfa, A., 4 Nov 2012, In : *Advances in Astronomy*. 2012, 430694

**Combined cosmological and solar system constraints on chameleon mechanism**

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

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Hees, A., Wolf, P., Lamine, B., Reynaud, S., Jaekel, M-T., Le Poncin-Lafitte, C., Lainey, V., Fuzfa, A. & Dehant, V., 2011, *Proceedings of the XLVIth 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**

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

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**Invisible universe: Toward a new cosmological paradigm**

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

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**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**

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

Fuzfa, A., 2008, In : *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 Feb 2007, In : Physical Review D - Particles, Fields, Gravitation and Cosmology. 75, 17 p., 123007.

**An Awesome Hypothesis for Dark Energy: The Abnormally Weighting Energy**

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**Gravitational instability of Yang-Mills cosmologies**

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

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**The Lemaitre-Schwarzschild Problem Revisited**

Fuzfa, A., Gerard, J-M. & Lambert, D., 2002, In : Gen.Rel.Grav.. 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, In : Revue des Questions Scientifiques. 172, p. 393-407

**About the Use of a Neural Network in the Analysis of  $e^+ e^- \rightarrow Z_0 Z_0 \rightarrow q\bar{q}$ :** CERN: DELPHI 2000-026 PHYS851  
Füzfa, A. & Jacobsson, R., 2000, CERN.