

**PERSONAL INFORMATION** Stefano Ansoldi (short CV)

 University of Udine, via delle Scienze 206, I-33100 Udine (UD), Italy

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 <https://sites.google.com/a/fulbrightmail.org/ansoldi>

**WORK EXPERIENCE**  
(POSITIONS)2008 – Present **Researcher, permanent, full-time**

University of Udine, Italy

- **Research in physics, both, theoretical and applied**; main fields: relativity and gravitational physics, cosmology, high energy astrophysics
- Active member of the MAGIC collaboration, and secretary of the time allocation committee
- Member of the VIRGO collaboration
- Member of the advisory panel of Classical and Quantum gravity
- Member of the Italian evaluation panel of the Fulbright Commission
- Member of the Italian National Institute of Nuclear Physics (INFN)
- Member of the mathematical physics section (GNFM) of the Istituto Nazionale di Alta Matematica “Francesco Severi” (INdAM)
- Member of the Japan Physical Society (JPS)
- Member of the PhD council of IRAP, Erasmus Mundus Joint Doctorate
- Member of the Editorial Board of Quanta

2007 – 2008 **Fellow of the Japan Society for the Promotion of Science (JSPS)**

Topics of research: quantum cosmology and gravitational physics

2006 – 2007 **Lecturer and research associate**

Department of Mathematics and Computer Science, Udine University and Department of Physics, Trieste University, Italy

2005 – 2006 **Fulbright fellow**

Center for Theoretical Physics, Massachusetts Institute of Technology (MIT), USA

Topics of research: quantum cosmology

2004 – 2005 **Lecturer and research associate**

Department of Mathematics and Computer Science, Udine University and Department of Physics, Trieste University, Italy

2003 – 2004 **Postdoctoral fellow**

Department of Mathematics and Computer Science, Udine University, Italy

Topics of research: 3D reconstruction from stereo image recognition

1999 – 2003 **Postdoctoral fellow (assegnista di ricerca)**

Department of Theoretical Physics, Trieste University, Italy

Topics of research: dynamics of extended objects, gravitation, quantum field theory

**WORK EXPERIENCE  
(TECHNICAL DUTIES)**

- 2018- Development and management of Magic Proposals Submission System (MPSS) and Magic Time Allocation Committee Evaluation System (MTACES), web tools for the submission (and evaluation) of scientific proposal to the MAGIC collaboration (time allocation committee)
- 2017- Development (in progress) of The Automated Transient Advocate (TATA), an automated VO-Events listener, selecting very high energy potential targets of observations for electromagnetic follow-ups of gravitational wave alerts
- 2013- Development and maintenance of Magic Automated Analysing And Alerting Unit (MA<sup>4</sup>U), an automated analysis tool downloading daily Fermi data, and performing a preliminary analysis to identify and select targets of observation for the MAGIC telescope
- 2013- System manager of the computational resources of MAGIC Udine group (server and storage arrays)
- 2015-2016 Webmaster of the MAGIC collaboration

**WORK EXPERIENCE  
(ADDITIONAL)**

- Outreach activity Speaker in a few invited talks at schools (also internationally) and a couple of public events about the physics of black holes, general relativity and cosmology; interviewed in a local tv programs about the mathematics of fractals
- Given seminars/talks Speaker in more than 50 talks, given, both, at international conferences/meetings/workshops and following invitations in selected institutes worldwide
- Visiting scientist Several short term visits (about 30, between one week and two months) in institutes worldwide (Kyoto University, Max Planck Institute for Gravitational Physics (Albert Einstein Institute, Berlin), Ben Gurion University, University of Victoria (Canada), Osaka-city University, University of British Columbia, Colorado University, Canadian Institute for Theoretical Astrophysics (Toronto))

**WORK EXPERIENCE  
(TEACHING)**

- 2018/2019 general relativity (master)  
advanced general relativity (master)
- 2017/2018 general relativity (master)  
advanced general relativity (master)  
general relativity (school of excellence)
- 2016/2017 general relativity (master)  
advanced general relativity (master)  
theoretical physics (school of excellence)
- 2015/2016 general relativity (master)  
advanced general relativity (master)
- 2014/2015 general relativity (master)  
advanced general relativity (master)
- 2013/2014 general relativity (master)  
advanced general relativity (master)
- 2012/2013 general relativity (PhD)  
general relativity (master)  
advanced general relativity (master)  
theoretical physics (school of excellence)
- 2011/2012 general relativity (master)  
advanced general relativity (master)
- 2010/2011 advanced general relativity (master)
- 2009/2010 general relativity (master)  
statistical mechanics (master)  
advanced analytical mechanics (undergraduate)
- 2008/2009 analytical mechanics (undergraduate)

2007/2008	analytical mechanics (undergraduate) mathematical physics (master)
2006/2007	analytical mechanics (undergraduate) mathematical physics (master)
2005/2006	analytical mechanics (undergraduate)
2002/2003	geometry of spacetime (master) mathematical methods for physicists (undergraduate, teaching assistant)
2001/2002	mathematical methods for physicists (undergraduate, teaching assistant)

## WORK EXPERIENCE (SUPERVISING STUDENTS)

2018	<p><a href="#">Francesco Giacomello</a>, master in physics (in collaboration with Antonio de Felice), <i>Analysis of the Galileon Tracker solution's parameter space through ISW-galaxy cross correlation</i></p> <p><a href="#">Filippo Sottocorona</a>, master in physics, <i>Selected aspects in the theory of quantum fields on curved backgrounds with applications</i></p> <p><a href="#">Nico Samà</a>, master in physics (in collaboration with Yuki Sakakihara), <i>Massive gravity and bigravity</i></p> <p><a href="#">Francesco Pisani</a>, undergraduate in physics, <i>Schwarzschild geometry and black holes</i></p> <p><a href="#">Alessandro Longo</a>, undergraduate in physics, <i>Geometrical and physical properties of space-time singularities</i></p> <p><a href="#">Davide De Biasio</a>, undergraduate in physics, <i>Goedel's solution to Einstein field equations</i></p> <p><a href="#">Pietro Smaniotto</a>, undergraduate in physics, <i>Basic ideas behind the concept of black hole entropy</i></p> <p><a href="#">Vito Dichio</a>, undergraduate in physics, <i>Dynamics on differentiable manifolds</i></p> <p><a href="#">Gabriele Degano</a>, undergraduate in physics, <i>Geometry and physics of the Lense-Thirring effect</i></p> <p><a href="#">Giovanni Fasiolo</a>, undergraduate in physics, <i>Non inertial observers and the concept of quantum vacuum</i></p> <p><a href="#">Marco Matteini</a>, undergraduate in physics, <i>Basics of vacuum decay in presence of gravity</i></p> <p><a href="#">Paolo Arnaudo</a>, school of excellence short dissertation, <i>Basic ideas in cosmology</i></p> <p><a href="#">Diego Perissutti</a>, school of excellence short dissertation, <i>Relativistic magnetohydrodynamics</i></p> <p><a href="#">Claudio Verardo</a>, school of excellence short dissertation, <i>Relativistic electrodynamics</i></p>
2017	<p><a href="#">Fabio Decolle</a>, master in physics, <i>Recent developments in gauge approaches to conformal gravity</i></p> <p><a href="#">Marco Gambone</a>, school of excellence short dissertation, <i>Relativistic generalizations of Schrödinger equation</i></p> <p><a href="#">Paolo Arnaudo</a>, school of excellence short dissertation, <i>Lie groups and applications to physics</i></p> <p><a href="#">Claudio Verardo</a>, school of excellence short dissertation, <i>Introduction to quantum mechanics (non-relativistic theory)</i></p> <p><a href="#">Francesco Maria Fabbri</a>, master in physics (as co-advisor, in collaboration with Bruno Giacomazzo), <i>General Relativistic simulation of binary neutron stars merger: an engine for Short Gamma Ray Burst</i></p>
2016	<p><a href="#">Rachele Desiante</a>, PhD in physics (in collaboration with Francesco Longo), <i>Gamma-Ray Transients observed with the Fermi Large Area Telescope</i></p> <p><a href="#">Simone Peirone</a>, master in physics (in collaboration with Alessandra Silvestri and Matteo Viel), <i>Effective Field Theory and Galaxy Clusters as Cosmological Tests of Modified Gravity</i></p> <p><a href="#">Luca Bertossa</a>, undergraduate in physics, <i>The Mathematics and Physics of Gravitational Waves</i></p> <p><a href="#">Alice Boldrin</a>, undergraduate in physics, <i>Chasing time: selected ideas about time in physics</i></p> <p><a href="#">Mardero Fabio</a>, undergraduate in physics, <i>Differences between low- and high-speed magnetohydrodynamics</i></p> <p><a href="#">Nicolò Cangioti</a>, master in mathematics (as co-advisor in collaboration with Vittorino Talamini and Sebastiano Sonego), <i>A Discrete Approach to Quantum Gravity</i></p>

- 2015 [Gianmarco Maggio](#), master in physics (in collaboration with Andrea Gruppuso), *Constraints on models that violate parity symmetry through the effect of cosmological birefringence*  
[Enrico Russo](#), master in physics (in collaboration with Sebastiano Sonego), *A gauge approach to gravity*  
[Francesco Battistel](#), undergraduate in physics, *Black hole entropy and thermodynamics*  
[Elisa Tassarotto](#), undergraduate in physics, *Instantons: theory and applications*  
[Francesco Cianci](#), undergraduate in physics, *Nordström theory of gravity*  
[Giorgio Scattolini](#), master in mathematics (as co-advisor in collaboration with Alessandro Tanzini), *Selected topics about Quantum Field Theory in curved spacetime and Hawking radiation*
- 2014 [Francesca Lepori](#), master in physics (in collaboration with Luciano Rezzolla), *Critical behaviour in the head-on collision of rotating relativistic stars*  
[Alex Zucca](#), master in physics (in collaboration with Alessandra Silvestri and Matteo Viel), *Cosmological implications of modified gravity in a massive neutrinos universe*  
[Michele Peresano](#), master in physics, *Basics of relativistic models of energy extraction in black hole spacetimes*  
[Giovanni Cabass](#), master in physics (as co-advisor in collaboration with Paolo Creminelli), *Basics of relativistic models of energy extraction in black hole spacetimes*  
[Vedran Skrinjar](#), master in physics (as co-advisor in collaboration with Daniele Oriti and Lorenzo Sindoni), *Definition of holonomy operators in Group Field Theories*  
[Anna Barbieri](#), master in mathematics (as co-advisor in collaboration with Marina Cobal), *Study of Higgs boson production associated with a top/anti-top pair at ATLAS LHC experiment*
- 2013 [Giulio Simonetti](#), undergraduate in mathematics, *Basics of differential calculus on post-critical finite fractals*  
[Petra Segina](#), undergraduate in physics, *A critical review of the equivalence principle*  
[Giulio Simonetti](#), school of excellence short dissertation, *Extension of the Laplacian operator to the Sierpinsky gasket*  
[Luca Fenzi](#), school of excellence short dissertation, *Non-standard analysis: an introduction*
- 2012 [Antonio Pittelli](#), master in physics (in collaboration with Lorenzo Sindoni), *Coherent States for Quantum Gravity and Applications*  
[Domenico Ferigo](#), master in computational physics, *Gravitational collapse: theoretical framework and numerical simulations*  
[Nicolò Cangiotti](#), undergraduate in mathematics, *Mathematical aspects of the special theory of relativity*  
[Oscar de Felice](#), undergraduate in physics, *Classical gauge theories: foundations and applications*  
[Luca Cimbaro](#), undergraduate in physics, *Basics of magnetohydrodynamics in astrophysical environments*  
[Vedran Skrinjar](#), undergraduate in physics, *Foundations of parametrized gravity theories*
- 2011 [Andrea Gasparin](#), undergraduate in mathematics, *Sufficient conditions for variational problems*
- 2010 [Tiziano Puppi](#), master in computational physics (in collaboration with A. Zanette), *Monte Carlo methods for option pricing in jump models*  
[Guglielmo Feltrin](#), undergraduate in mathematics, *Mathematical foundations of electromagnetic interactions*
- 2008 [Eleonora Annigoni](#), undergraduate in mathematics, *Modified theories of gravity*
- 2004 [Lorenzo Sindoni](#), master in physics, *Extended objects dynamics in general relativity: geometrical foundations and applications*  
[Daniele Coslovich](#), master in physics, short dissertation

**Internships** Since 2014, supervisor of more than 20 internships at the undergraduate and master level on theoretical/mathematical physics, applications of differential geometry to physics, special/general relativity and gravitational physics

## EDUCATION AND TRAINING

- 1998 **PhD – theoretical physics** ISCED 6  
 Thesis Title: “Boundary versus Bulk Dynamics of Extended Objects and the Fractal Structure of Quantum Spacetime”  
 Trieste University, Italy

- 1995 **Specialization course for teachers in scientific subjects**  
Udine University, Italy
- 1994 **Bachelor of Science – *summa cum laude*, theoretical physics** ISCED 5  
Thesis Title: “Quantum-gravitational nucleation of spacetime domains”  
Trieste University, Italy

PERSONAL SKILLS ■

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

Digital competences	SELF-ASSESSMENT				
	Information Processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

[Digital competences - Self-assessment grid](#)

- Computer skills
- competent with most operating systems, not only as a user, but also as a system administrator;
  - proficient in coding in most languages (C, C++, Fortran), including scripting languages (in particular, PERL, PHP, Python);
  - competent in advanced web developing, including database management (mysql)
  - competent with most Microsoft Office programs.

## ADDITIONAL INFORMATION

## Publications

- “Deep observations of the globular cluster M15 with the MAGIC telescopes”  
V. A. Acciari *et al.* [MAGIC and Finnish Centre of Astronomy with ESO Collaborations and MAGIC Finnish Consortium: Tuorla Observatory].  
arXiv:1901.04367 [astro-ph.HE]
- “MAGIC and Fermi-LAT gamma-ray results on unassociated HAWC sources”  
M. L. Ahnen *et al.* [MAGIC and HAWC and Fermi-LAT Collaborations].  
arXiv:1901.03982 [astro-ph.HE]  
DOI:10.1093/mnras/stz089
- “A Fast Very High Energy  $\gamma$ -ray Flare from BL Lacertae during a Period of Multiwavelength activity in June 2015”  
V. A. Acciari *et al.* [MAGIC Collaboration].  
arXiv:1901.01733 [astro-ph.HE]  
DOI:10.1051/0004-6361/201834010
- “Discovery of TeV  $\gamma$ -ray emission from the neighbourhood of the supernova remnant G24.7+0.6 by MAGIC”  
V. A. Acciari *et al.* [MAGIC Collaboration].  
arXiv:1812.04854 [astro-ph.HE]  
DOI:10.1093/mnras/sty3387
- “Bounds from ISW-galaxy cross-correlations on generalized covariant Galileon models”  
F. Giacomello, A. De Felice and S. Ansoldi.  
arXiv:1811.10885 [astro-ph.CO]
- “Periastron Observations of TeV Gamma-Ray Emission from a Binary System with a 50-year Period”  
A. U. Abeysekara *et al.* [VERITAS and MAGIC Collaborations].  
arXiv:1810.05271 [astro-ph.HE]  
DOI:10.3847/2041-8213/aae70e  
Astrophys. J. Lett. 867, no. 1, L19 (2018)
- “Constraining very-high-energy and optical emission from FRB 121102 with the MAGIC telescopes”  
V. A. Acciari *et al.* [MAGIC Collaboration].  
arXiv:1809.00663 [astro-ph.HE]  
DOI:10.1093/mnras/sty2422  
Mon. Not. Roy. Astron. Soc. 481, 2479 (2018)
- “The extreme HBL behaviour of Markarian 501 during 2012 Extreme HBL behavior of Markarian 501 during 2012”  
M. L. Ahnen *et al.* [MAGIC and FACT and VERITAS Collaborations].  
arXiv:1808.04300 [astro-ph.HE]  
DOI:10.1051/0004-6361/201833704  
Astron. Astrophys. 620, A181 (2018)
- “Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A”  
M. G. Aartsen *et al.* [IceCube and Fermi-LAT and MAGIC and AGILE and ASAS-SN and HAWC and H.E.S.S. and INTEGRAL and Kanata and Kiso and Kapteyn and Liverpool Telescope and Subaru and Swift NuSTAR and VERITAS and VLA/17B-403 Collaborations].  
arXiv:1807.08816 [astro-ph.HE]  
DOI:10.1126/science.aat1378  
Science 361, no. 6398, eaat1378 (2018)
- “The blazar TXS 0506+056 associated with a high-energy neutrino: insights into extragalactic jets and cosmic ray acceleration”  
S. Ansoldi *et al.* [MAGIC Collaboration].  
arXiv:1807.04300 [astro-ph.HE]  
DOI:10.3847/2041-8213/aad083  
Astrophys. J. Lett. , [Astrophys. J. 863, L10 (2018)]
- “The broad-band properties of the intermediate synchrotron peaked BL Lac S2 0109+22 from radio to VHE gamma-rays”  
S. Ansoldi *et al.* [MAGIC and Fermi-LAT Collaborations].  
arXiv:1807.02095 [astro-ph.HE]  
DOI:10.1093/mnras/sty1753  
Mon. Not. Roy. Astron. Soc. 480, no. 1, 879 (2018)

## Publications (continued)

- “Multi-wavelength characterization of the blazar S5 0716+714 during an unprecedented outburst phase”  
M. L. Ahnen *et al.* [MAGIC and MWL and Fermi-LAT Collaborations].  
arXiv:1807.00413 [astro-ph.HE]  
DOI:10.1051/0004-6361/201832677  
Astron. Astrophys. 619, A45 (2018)
- “Constraining Dark Matter lifetime with a deep gamma-ray survey of the Perseus Galaxy Cluster with MAGIC”  
V. A. Acciari *et al.* [MAGIC Collaboration].  
arXiv:1806.11063 [astro-ph.HE]  
DOI:10.1016/j.dark.2018.08.002  
Phys. Dark Univ. 22, 38 (2018)
- “Detection of persistent VHE gamma-ray emission from PKS 1510–089 by the MAGIC telescopes during low states between 2012 and 2017”  
V. A. Acciari *et al.* [MAGIC and Fermi-LAT Collaborations].  
arXiv:1806.05367 [astro-ph.GA]  
DOI:10.1051/0004-6361/201833618  
Astron. Astrophys. 619, A159 (2018)
- “Gamma-ray flaring activity of NGC1275 in 2016–2017 measured by MAGIC”  
S. Ansoldi *et al.* [MAGIC Collaboration].  
arXiv:1806.01559 [astro-ph.HE]  
DOI:10.1051/0004-6361/201832895  
Astron. Astrophys. 617, A91 (2018)
- “Limits on the flux of tau neutrinos from 1 PeV to 3 EeV with the MAGIC telescopes”  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1805.02750 [astro-ph.IM]  
DOI:10.1016/j.astropartphys.2018.05.002  
Astropart. Phys. 102, 77 (2018)
- “From Black Holes to Baby Universes: Exploring the Possibility of Creating a Cosmos in the Laboratory”  
S. Ansoldi, Z. Merali and E. I. Guendelman.  
arXiv:1801.04539 [gr-qc]  
Bulg. J. Phys. 45, no. 2, 203 (2018)
- “Detection of the blazar S4 0954+65 at very-high-energy with the MAGIC telescopes during an exceptionally high optical state”  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1801.04138 [astro-ph.HE]  
DOI:10.1051/0004-6361/201832624  
Astron. Astrophys. 617, A30 (2018)
- “Indirect dark matter searches in the dwarf satellite galaxy Ursa Major II with the MAGIC Telescopes”  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1712.03095 [astro-ph.HE]  
DOI:10.1088/1475-7516/2018/03/009  
JCAP 1803, no. 03, 009 (2018)
- “Constraining Lorentz invariance violation using the Crab Pulsar emission observed up to TeV energies by MAGIC”  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1709.00346 [astro-ph.HE]  
DOI:10.3847/1538-4365/aa8404  
Astrophys. J. Suppl. 232, no. 1, 9 (2017)
- “MAGIC Contributions to the 35th International Cosmic Ray Conference (ICRC2017)”  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1708.05153 [astro-ph.HE]
- “Search for very high-energy gamma-ray emission from the microquasar Cygnus X-1 with the MAGIC telescopes”  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1708.03689 [astro-ph.HE]  
DOI:10.1093/mnras/stx2087  
Mon. Not. Roy. Astron. Soc. 472, no. 3, 3474 (2017)

## Publications (continued)

- “Constraints on particle acceleration in SS433/W50 from MAGIC and H.E.S.S. observations”**  
M. L. Ahnen *et al.* [MAGIC and H.E.S.S. Collaborations].  
arXiv:1707.03658 [astro-ph.HE]  
DOI:10.1051/0004-6361/201731169  
Astron. Astrophys. 612, A14 (2018)
- “A cut-off in the TeV gamma-ray spectrum of the SNR Cassiopeia A”**  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1707.01583 [astro-ph.HE]  
DOI:10.1093/mnras/sty382, 10.1093/mnras/stx2079  
Mon. Not. Roy. Astron. Soc. 472, no. 3, 2956 (2017), Erratum: [Mon. Not. Roy. Astron. Soc. 476, no. 3, 2874 (2018)]
- “MAGIC observations of the microquasar V404 Cygni during the 2015 outburst”**  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1707.00887 [astro-ph.HE]  
DOI:10.1093/mnras/stx1690  
Mon. Not. Roy. Astron. Soc. 471, no. 2, 1688 (2017)
- “Observation of the Black Widow B1957+20 millisecond pulsar binary system with the MAGIC telescopes”**  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1706.01378 [astro-ph.HE]  
DOI:10.1093/mnras/stx1405  
Mon. Not. Roy. Astron. Soc. 470, no. 4, 4608 (2017)
- “Performance of the MAGIC telescopes under moonlight”**  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1704.00906 [astro-ph.IM]  
DOI:10.1016/j.astropartphys.2017.08.001  
Astropart. Phys. 94, 29 (2017)
- “First Multi-wavelength Campaign on the Gamma-ray-loud Active Galaxy IC 310”**  
M. L. Ahnen *et al.*.  
arXiv:1703.07651 [astro-ph.HE]  
DOI:10.1051/0004-6361/201630347  
Astron. Astrophys. 603, A25 (2017)
- “Very-high-energy gamma-ray observations of the Type Ia Supernova SN 2014J with the MAGIC telescopes”**  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1702.07677 [astro-ph.HE]  
DOI:10.1051/0004-6361/201629574  
Astron. Astrophys. 602, A98 (2017)
- “MAGIC detection of very high energy gamma-ray emission from the low-luminosity blazar 1ES 1741+196”**  
M. L. Ahnen *et al.* [MAGIC and Fermi-LAT Collaborations].  
arXiv:1702.06795 [astro-ph.HE]  
DOI:10.1093/mnras/stx472  
Mon. Not. Roy. Astron. Soc. 468, no. 2, 1534 (2017)
- “Very high energy follow-up programs of gravitational wave and transient alerts with the MAGIC telescopes”**  
A. Carosi *et al.* [MAGIC Collaboration].  
DOI:10.1063/1.4968997  
AIP Conf. Proc. 1792, no. 1, 060014 (2017).
- “Multiband variability studies and novel broadband SED modeling of Mrk 501 in 2009”**  
M. L. Ahnen *et al.* [MAGIC and VERITAS Collaborations].  
arXiv:1612.09472 [astro-ph.HE]  
DOI:10.1051/0004-6361/201629540  
Astron. Astrophys. 603, A31 (2017)
- “Observations of Sagittarius A\* during the pericenter passage of the G2 object with MAGIC”**  
M. L. Ahnen *et al.*.  
arXiv:1611.07095 [astro-ph.HE]  
DOI:10.1051/0004-6361/201629355  
Astron. Astrophys. 601, A33 (2017)

## Publications (continued)

- “A search for spectral hysteresis and energy-dependent time lags from X-ray and TeV gamma-ray observations of Mrk 421”  
A. U. Abeysekara *et al.* [VERITAS and MAGIC Collaborations].  
arXiv:1611.04626 [astro-ph.HE]  
DOI:10.3847/1538-4357/834/1/2  
Astrophys. J. 834, no. 1, 2 (2017)
- “Multiwavelength observations of a VHE gamma-ray flare from PKS 1510-089 in 2015”  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1610.09416 [astro-ph.HE]  
DOI:10.1051/0004-6361/201629960  
Astron. Astrophys. 603, A29 (2017)
- “Very High-Energy Gamma-Ray Follow-Up Program Using Neutrino Triggers from IceCube”  
M. G. Aartsen *et al.* [IceCube and MAGIC and VERITAS Collaborations].  
arXiv:1610.01814 [hep-ex]  
DOI:10.1088/1748-0221/11/11/P11009  
JINST 11, no. 11, P11009 (2016)
- “Detection of very high energy gamma-ray emission from the gravitationally-lensed blazar QSO B0218+357 with the MAGIC telescopes”  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1609.01095 [astro-ph.HE]  
DOI:10.1051/0004-6361/201629461  
Astron. Astrophys. 595, A98 (2016)
- “Constraining f(R) Gravity with Planck Sunyaev-Zel’dovich Clusters”  
S. Peirone, M. Raveri, M. Viel, S. Borgani and S. Ansoldi.  
arXiv:1607.07863 [astro-ph.CO]  
DOI:10.1103/PhysRevD.95.023521  
Phys. Rev. D 95, no. 2, 023521 (2017)
- “Long-term multi-wavelength variability and correlation study of Markarian 421 from 2007 to 2009”  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1605.09017 [astro-ph.GA]  
DOI:10.1051/0004-6361/201628447  
Astron. Astrophys. 593, A91 (2016)
- “Multiwavelength observations of the blazar 1ES 1011+496 in Spring 2008”  
M. L. Ahnen *et al.* [MAGIC and AGILE Collaborations].  
arXiv:1603.07308 [astro-ph.HE]  
DOI:10.1093/mnras/stw710  
Mon. Not. Roy. Astron. Soc. 459, no. 3, 2286 (2016)
- “Super-orbital variability of LS I +61°303 at TeV energies”  
M. L. Ahnen *et al.* [MAGIC Collaboration].  
arXiv:1603.06973 [astro-ph.HE]  
DOI:10.1051/0004-6361/201527964  
Astron. Astrophys. 591, A76 (2016)
- “Insights into the emission of the blazar 1ES 1011+496 through unprecedented broadband observations during 2011 and 2012”  
J. Aleksic *et al.*.  
arXiv:1603.06776 [astro-ph.HE]  
DOI:10.1051/0004-6361/201527176  
Astron. Astrophys. 591, A10 (2016)
- “Investigating the peculiar emission from the new VHE gamma-ray source H1722+119”  
M. L. Ahnen *et al.* [Fermi-LAT Collaboration].  
arXiv:1603.06523 [astro-ph.HE]  
DOI:10.1093/mnras/stw689  
Mon. Not. Roy. Astron. Soc. 459, no. 3, 3271 (2016)

## Publications (continued)

- “Search for VHE gamma-ray emission from Geminga pulsar and nebula with the MAGIC telescopes”  
M. L. Ahnen *et al.*  
arXiv:1603.00730 [astro-ph.HE]  
DOI:10.1051/0004-6361/201527722  
Astron. Astrophys. 591, A138 (2016)
- “MAGIC observations of the February 2014 flare of 1ES 1011+496 and ensuing constraint of the EBL density”  
M. L. Ahnen *et al.*  
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