

LIST OF PUBLICATIONS

Submitted journal articles

- 131) J. Ripken, J. Conrad, P. Scott
Direct constraints on the CMSSM from H.E.S.S. observations of the GC and observations of the Sagittarius dwarf galaxy
JCAP submitted.
- 130) Y. Akrami, C. Savage, P. Scott, J. Conrad, J. Edsjo
Statistical coverage for supersymmetric parameter estimation: a case study with direct detection of dark matter
e-Print: arXiv:1011.4297

Short author list papers

- 129) Y. Akrami, C. Savage, P. Scott, J. Conrad, J. Edsjo
How well will ton-scale dark matter direct detection experiments constrain minimal supersymmetry?
e-Print: arXiv:1011.4318 [astro-ph.CO], accepted by JCAP
- 128) A. Cuoco, A. Sellerholm, J. Conrad, S. Hannestad
Anisotropies in the Diffuse Gamma-Ray Background from Dark Matter with Fermi LAT: a closer look
eprint arXiv:1005.0843, accepted by M.N.R.A.S.
- 127) P. Scott, J. Conrad, J. Edsjö, L. Bergström, C. Farnier, Y. Akrami
Direct constraints on Minimal Supersymmetry from Fermi-LAT observations of the dwarf galaxy Segue-1
JCAP **1001** (2010) 031
- 126) Y. Akrami, P. Scott, J. Edsjö, J. Conrad, L. Bergström
A Profile likelihood analysis of the Constrained MSSM with Genetic Algorithms
JHEP **1004** (2010) 057
- 125) J. Lundberg, J. Conrad, W. Rolke, A. Lopez
Limits, discovery and cut optimization for a Poisson process with uncertainty in background and signal efficiency: TRolke 2.0
Computer Physics Communications, **181**, Issue 3, p. 683-686, 2010
- 124) E. Baltz,...J. Conrad *et al.*
Pre-launch estimates of the GLAST sensitivity to Dark Matter annihilation signals
J. Cosmol. Astropart. Phys. JCAP07(2008)013
- 123) J. Conrad
On sensitivity calculations for neutrino oscillation experiments
Nuclear Instruments and Methods A **580** 1460-1465.(2007)

- 122) J. Conrad and F. Tegenfeldt
Applying rule ensembles to the search for super-symmetry at the large hadron collider.
J. High Energy Phys. JHEP 07 (2006) 040
- 121) W. Rolke, A. Lopez, J. Conrad
Limits and Confidence Intervals in Presence of Nuisance Parameters
Nuclear Instruments and Methods A **551** 493-503.(2005)
<http://arxiv.org/pdf/physics/0403059>
- 120) F. Tegenfeldt and J. Conrad
On Bayesian treatment of Systematic Uncertainties in Confidence Interval Calculation
Nuclear Instruments and Methods A **539** 407-413.(2005)
<http://arxiv.org/pdf/physics/0408039>
- 119) J. Conrad
A program for confidence interval calculations for a Poisson process with background including systematic uncertainties: POLE 1.0
Computer Physics Communications **158** 117-123 (2004)
http://adsabs.harvard.edu/cgi-bin/nph-bib_query?bibcode=2004CoPhC.158..117C
- 118) J. Conrad, O. Botner, A. Hallgren and C. P. de los Heros
Including Systematic Uncertainties in Confidence Interval Construction for Poisson Statistics
Phys. Rev. D **67** (2003) 012002
<http://prola.aps.org/abstract/PRD/v67/i1/e012002>

Refereed journals in large collaborations (marked with * if main authorship, marked with ** if direct and significant contribution)

- 117) A. Abramowski, ... J. Conrad *et al.* (H.E.S.S. collaboration)
HESS J1943+213: a candidate extreme BL Lacertae object
Astron. & Astroph **529**, 49, 2011
- 116) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
The First Fermi Multifrequency Campaign on BL Lacertae: Characterizing the Low-activity State of the Eponymous Blazar
Astrophys. J. **730** 101,2011
- 115) A. Abramowski, ... J. Conrad *et al.* (H.E.S.S. collaboration)
Search for Lorentz Invariance breaking with a likelihood fit of the PKS 2155-304 flare data taken on MJD 53944
Astroparticle Physics, Volume 34, Issue 8, p. 738
- 114) A. Abramowski, ... J. Conrad *et al.* (H.E.S.S. collaboration)
H.E.S.S. constraints on dark matter annihilations towards the sculptor and carina dwarf galaxies
Astroparticle Physics, Volume 34, Issue 8, p. 608-616

- 113) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Insights into the High-energy gamma-ray Emission of Markarian 501 from Extensive Multifrequency Observations in the Fermi Era
Astrophys. J. **727** 129,2011
- 112) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Constraints on the Cosmic-ray Density Gradient Beyond the Solar Circle from Fermi γ -ray Observations of the Third Galactic Quadrant
Astrophys. J. **726** 81,2011
- 111) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Multi-wavelength Observations of the Flaring Gamma-ray Blazar 3C 66A in 2008 October
Astrophys. J. **726** 43,2011
- 110) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi-LAT Search for Pulsar Wind Nebulae Around Gamma-ray Pulsars
Astrophys. J. **726** 35,2011
- 109) A. Abramowski, ... J. Conrad *et al.* (H.E.S.S. collaboration)
Revisiting the Westerland 2 field with the HESS telescope array
Astron. & Astroph. **525**, 46, 2011
- 108) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Search for Gamma-ray Emission from Magnetars with the Fermi Large Area Telescope
Astrophys. J. **725** 73,2010
- 107) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
A population of gamma-ray emitting globular clusters seen with the Fermi Large Area Telescope
Astron.& Astroph. **524** 75,2010
- 106) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi LAT observations of cosmic-ray electrons from 7 GeV to 1 TeV
Phys. Rev. D. **82**, 092004 (2010)
- 105) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope Constraints on the Gamma-ray Opacity of the Universe
Astrophys. J. **723** 1082,2010
- 104) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope Observation of a Gamma-ray Source at the Position of Eta Carinae
Astrophys. J. **723** 649,2010
- 103) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope observations of Local Group galaxies: detection of M 31 and search for M 33
Astron.& Astroph. **523** 2,2010

- 102) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Detection of the Small Magellanic Cloud in gamma-rays with Fermi/LAT
Astron.& Astroph. **523** 46,2010
- 101) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi-LAT Study of Gamma-ray Emission in the Direction of Supernova Remnant W49B
Astrophys. J. **722** 1302,2010
- 100) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Gamma-ray Light Curves and Variability of Bright Fermi-detected Blazars
Astrophys. J. **722** 520,2010
- 100) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Gamma-ray Light Curves and Variability of Bright Fermi-detected Blazars
Astrophys. J. **722** 520,2010
- 99) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope and Multi-wavelength Observations of the Flaring Activity of PKS 1510-089 between 2008 September and 2009 June
Astrophys. J. **721** 1425,2010
- 98) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope Observations of Misaligned Active Galactic Nuclei
Astrophys. J. **720** 912,2010
- 97) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
The Fermi-LAT High-Latitude Survey: Source Count Distributions and the Origin of the Extragalactic Diffuse Background
Astrophys. J. **720** 435,2010
- 96) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Gamma-Ray Emission Concurrent with the Nova in the Symbiotic Binary V407 Cygni
Science, **329**, Issue 5993, pp. 817 (2010).
- 95) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope View of the Core of the Radio Galaxy Centaurus A
Astrophys. J. **719** 1034,2010
- 94) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope Observations of the Supernova Remnant W28 (G6.4-0.1)
Astrophys. J. **718** 348,2010
- 93) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Observations of High-energy Gamma-ray Emission from GRB 090217A
Astrophys. J. **717** 127,2010
- 92) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
GeV Gamma-ray Flux Upper Limits from Clusters of Galaxies
Astrophys. J. **717** 71,2010

- 91) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Observations of GRB 090510: A Short-Hard Gamma-ray Burst with an Additional, Hard Power-law Component from 10 keV TO GeV Energies
Astrophys. J. **716** 1178,2010
- 90) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Suzaku Observations of Luminous Quasars: Revealing the Nature of High-energy Blazar Emission in Low-level Activity States
Astrophys. J. **716** 835,2010
- 89) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
The Spectral Energy Distribution of Fermi Bright Blazars
Astrophys. J. **716** 30,2010
- 88) F. Acero, ... J. Conrad *et al.* (H.E.S.S. collaboration) *First detection of VHE gamma-rays from SN 1006 by HESS*
Astronomy & Astrophysics **516**, 62, 2010
- 87) A. Abramowski, ... J. Conrad *et al.* (H.E.S.S. collaboration)
Multi-wavelength observations of H 2356-309
Astronomy & Astrophysics **516**, 56, 2010
- 86) M. Ackermann, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Constraints on dark matter annihilation in clusters of galaxies with the Fermi large area telescope
JCAP **1005** (2010) 025
- 85) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
The First Catalog of Active Galactic Nuclei Detected by the Fermi Large Area Telescope
Astrophys. J. **715** 429,2010
- 84) V. Acciari, J. Conrad *et al.* (Fermi-LAT collaboration, VERITAS collaboration)
The Discovery of gamma-Ray Emission from the Blazar RGB J0710+591
Astrophys. J. **715** L49-55,2010.
- 83) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Detection of the Energetic Pulsar PSR B1509-58 and its Pulsar Wind Nebula in MSH 15-52 Using the Fermi-Large Area Telescope
Astrophys. J. **714** L73-78,2010
- 82) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi-Large Area Telescope Observations of the Exceptional Gamma-ray Outbursts of 3C 273 in 2009 September
Astrophys. J. **714** L429,2010
- 81) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
The First Fermi Large Area Telescope Catalog of Gamma-ray Pulsars
Astrophys. J. Suppl. **187** 460,2010

- 80) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)*
Constraints on Cosmological Dark Matter annihilation from the Fermi-LAT Isotropic Diffuse Gamma-Ray Measurement
JCAP **1004** (2010) 014
- 79) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Gamma-Ray Imaging of a Radio Galaxy
Science, **328**, Issue 5979, pp. 729 (2010).
- 78) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)**
Spectrum of the isotropic diffuse gamma-ray emission derived from first-year Fermi Large Area Telescope data
Phys. Rev. Lett. **104**, 101101 (2010)
- 77) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)*
The Search for Photon lines from 20 to 300 GeV using the Fermi LAT
Phys. Rev. Lett. **104**, 091302 (2010)
- 76) F. Acero, ... J. Conrad *et al.* (H.E.S.S. collaboration) *Localizing the VHE gamma-ray source at the Galactic Centre*
MNRAS **402**, Issue 3, pp. 1877-1882 (2010)
- 75) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
The Vela Pulsar: Results from the First Year of Fermi LAT Observations
Astrophys. J. **713** 154 ,2010
- 74) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope Observations of the Vela-X Pulsar Wind Nebula
Astrophys. J. **713** 146 ,2010
- 73) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope Observations of PSR J1836+5925
Astrophys. J. **712** 1209,2010
- 72) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Discovery of Pulsed Gamma-Rays from PSR J0034-0534 with the Fermi Large Area Telescope: A Case for Co-Located Radio and Gamma-Ray Emission Regions
Astrophys. J. **712** 957 ,2010
- 71) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Observation of Supernova Remnant IC 443 with the Fermi Large Area Telescope
Astrophys. J. **712** 558 ,2010
- 70) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Detection of Delayed GeV Emission from the Short Gamma-Ray Burst 081024B
Astrophys. J. **712** 459 ,2010

- 69) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Observations of Milky Way Dwarf Spheroidal Galaxies with the Fermi-Large Area Telescope Detector and Constraints on Dark Matter Models
Astrophys. J. **712** 147 ,2010
- 68) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
PSR J1907+0602: A Radio-Faint Gamma-Ray Pulsar Powering a Bright TeV Pulsar Wind Nebula
Astrophys. J. **711** 64 ,2010
- 67) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Observations of the Large Magellanic Cloud with Fermi
Astronomy & Astrophysics **512** 7 ,2010
- 66) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Gamma-Ray Emission from the Shell of Supernova Remnant W44 Revealed by the Fermi LAT
Science, **327**, Issue 5969, pp. 1103 (2010).
- 65) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
A change in the optical polarization associated with a gamma-ray flare in the blazar 3C279
Nature, **463**, Issue 7283, pp. 919 (2010).
- 64) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi-Lat Discovery of GeV Gamma-Ray Emission from the Young Supernova Remnant Cassiopeia A
Astrophys. J. **710** L92, 2010
- 63) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Spectral Properties of Bright Fermi-Detected Blazars in the Gamma-Ray Band
Astrophys. J. **710** 1271,2010
- 62) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
PKS 1502+106: A New and Distant Gamma-ray Blazar in Outburst Discovered by the Fermi Large Area Telescope
Astrophys. J. **710** 810,2010
- 61) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Observations of Cassiopeia and Cepheus: Diffuse Gamma-ray Emission in the Outer Galaxy
Astrophys. J. **710** 133,2010
- 60) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Detection of Gamma-Ray Emission from the Starburst Galaxies M82 and NGC 253 with the Large Area Telescope
Astrophys. J. **709** L152,2010

- 59) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Swift and Fermi Observations of the Early Afterglow of the Short Gamma-Ray Burst 090510
Astrophys. J. **709** L146,2010
- 58) V. Acciari, ... J. Conrad *et al.* (Fermi-LAT collaboration, VERITAS collaboration)
Discovery of Very High Energy Gamma Rays from PKS 1424+240 and Multiwavelength Constraints on Its Redshift
Astrophys. J. **708** L100,2010
- 57) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Gamma-ray and Radio Properties of Six Pulsars Detected by the Fermi Large Area Telescope
Astrophys. J. **708** 1426,2010
- 56) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Observations of the Very Hard Gamma-ray Blazar PG 1553+113
Astrophys. J. **708** 1310,2010
- 55) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope Observations of the Crab Pulsar And Nebula
Astrophys. J. **708** 1254,2010
- 54) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Modulated High-Energy Gamma-Ray Emission from the Microquasar Cygnus X-3
Science, **326**, Issue 5959, pp. 1512- (2009).
- 53) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope Measurements of the Diffuse Gamma-Ray Emission at Intermediate Galactic Latitudes
Phys. Rev. Lett. **103**, 251101 (2009)
- 52) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi large area telescope observations of the cosmic-ray induced gamma-ray emission of the Earth's atmosphere
Physical Review D **80** (2009) 122004
- 51) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Radio-Loud Narrow-Line Seyfert 1 as a New Class of Gamma-Ray Active Galactic Nuclei
Astrophys. J. **707** L142 ,2009
- 50) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Observations of TeV-Selected Active Galactic Nuclei
Astrophys. J. **707** 1310 ,2009
- 49) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Multiwavelength Monitoring of the Enigmatic Narrow-Line Seyfert 1 PMN J0948+0022
Astrophys. J. **707** 727 ,2009

- 48) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Observations of High-energy Gamma-ray Emission from GRB 080825C
Astrophys. J. **707** 580 ,2009
- 47) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope Detection of Pulsed γ -rays from the Vela-like Pulsars PSR J1048-5832 and PSR J2229+6114
Astrophys. J. **706** 1331 ,2009
- 46) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope Gamma-Ray Detection of the Radio Galaxy M87
Astrophys. J. **707** 55 ,2009
- 45) F. Acero, ... J. Conrad *et al.* (H.E.S.S. collaboration) *HESS upper limits on very high energy gamma-ray emission from the microquasar GRS 1915+105*
Astronomy & Astrophysics **508** 1135 ,2009
- 44) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
A limit on the variation of the speed of light arising from quantum gravity effects
Nature, **402**, Issue 7271, pp. 331 (2010).
- 43) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi/LAT observations of LS 5039
Astrophys. J. **706** L56 ,2009
- 42) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi LAT Discovery of Extended Gamma-Ray Emission in the Direction of Supernova Remnant W51C
Astrophys. J. **706** L1 ,2009
- 41) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
The on-orbit calibration of the Fermi Large Area Telescope
Astropart.Phys.**32** (2006) 193
- 40) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi LAT Observation of Diffuse Gamma Rays Produced Through Interactions Between Local Interstellar Matter and High-energy Cosmic Rays
Astrophys. J. **703** 1249 ,2009
- 39) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
A Population of Gamma-Ray Millisecond Pulsars Seen with the Fermi Large Area Telescope
Science, **325**, Issue 5942, pp. 848- (2009).
- 38) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Detection of High-Energy Gamma-Ray Emission from the Globular Cluster 47 Tucanae with Fermi
Science, **325**, Issue 5942, pp. 845- (2009).

- 37) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Detection of 16 Gamma-Ray Pulsars Through Blind Frequency Searches Using the Fermi LAT
Science, **325**, Issue 5942, pp. 840- (2009).
- 36) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi LAT Observation of LS I + 61 303: First detection of an orbital modulation in GeV gamma-rays
Astrophys. J. **701** L1059-1066,2009.
- 35) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Pulsed Gamma-rays from PSR J2021+3651 with the Fermi Large Area Telescope
Astrophys. J. **700** 1059-1066,2009.
- 34) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Bright Active Galactic Nuclei Source List from the First Three Months
Astrophys. J. **700** 597,2009.
- 33) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Discovery of Pulsations from the Pulsar J0205+6449 in SNR 3C 58 with the Fermi Gamma-Ray Space Telescope
Astrophys. J. **699** L102-107,2009.
- 32) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Pulsed Gamma-rays from PSR J0030+0451 with the Fermi Large Area Telescope
Astrophys. J. **699** 1171-1177,2009.
- 31) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi/LAT discovery of gamma-ray emission from a relativistic jet in the narrow-line quasar PMN J0948+022
Astrophys. J. **699** 976-984,2009.
- 30) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Early Fermi Gamma-ray Space Telescope Observations of the Quasar 3C 454.3
Astrophys. J. **699** 817-823,2009.
- 29) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Discovery of Gamma-Ray Emission from NGC 1275
Astrophys. J. **699** 31-39,2009.
- 28) A. Abdo, ... J. Conrad *et al.* (Fermi-LAT collaboration)
Measurement of the $e^+ + e^-$ spectrum from 20 GeV to 1 TeV with the Fermi Large Area Telescope
Physical Review Letters, **102**, 18, 2009
- 27) A. Abdo, J. Conrad *et al.* (Fermi-LAT collaboration)
Discovery of Pulsed gamma-rays from the Young Radio Pulsar PSR J1028-5819 with the Fermi Large Area Telescope

Astrophysical Journal Letters **695** 72 (2009)

- 26) A. Abdo, J. Conrad *et al.* (HESS & Fermi-LAT collaboration)
Simultaneous observations of PKS 2155-304 with H.E.S.S., Fermi, RXTE and ATOM: spectral energy distributions and variability in a low state
Astrophysical Journal Letters **696** pp. L150-L155 (2009).
- 25) A. Abdo, J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Observations of High-Energy Gamma-Ray Emission from GRB 080916C
Science, **323**, 5922, pp. 1688- (2009).
- 24) A. Abdo, J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi Large Area Telescope Bright Gamma-ray Source List
e-Print: arXiv:0902.1340v1 [astro-ph.HE]
Astrophysical Journal Supplement, **183**, Issue 1, pp. 46-66 (2009).
- 23) W. Atwood, J. Conrad *et al.* (Fermi-LAT collaboration) **
The Large Area Telescope on the Fermi Gamma-ray Space Telescope Mission.
e-Print: arXiv:0902.1089 [astro-ph.IM]
Astrophys. J. **697** 1071-1102,2009.
- 22) A. Abdo, J. Conrad *et al.* (Fermi-LAT collaboration)
Fermi LAT Observations of the Vela Pulsar
Astrophysical Journal, **696** 1084-1093 (2009).
- 21) A. Abdo, J. Conrad *et al.* (Fermi-LAT collaboration)
The Fermi Large Area Telescope discovers the pulsar in the young galactic supernova remnant CTA 1.
Science, **322**, 1218
- 20) B. Alessandro *et al.* (ALICE Collaboration) **
ALICE: Physics performance report, volume II,
J. Phys.G:Nucl.Part.Phys **32** (2006) 1295-2040
<http://www.iop.org/EJ/S/3/99/4JnYEGynGeBiV28z4JJINA/journal/0954-3899>
- 19) A. Achterberg, ..., J. Conrad ... (IceCube collaboration)
On the selection of AGN neutrino source candidates for a source stacking analysis with neutrino telescopes. Astropart.Phys.**26** (2006) 282-300
<http://arxiv.org/pdf/astro-ph/0609534>
- 18) M. Ackermann, ..., J. Conrad ... (AMANDA collaboration)
The ICECUBE prototype string in AMANDA
Nuclear Instruments and Methods A **556** 169-181 (2006)
<http://arxiv.org/pdf/astro-ph/0601397>
- 17) A. Achterberg, ..., J. Conrad ... (AMANDA collaboration)
Limits on the muon flux from neutralino annihilations at the center of the Earth with

AMANDA

Astropart.Phys. **26** (2006) 129-139, January 2005

- 16) M. Ackermann, ..., J. Conrad ... (AMANDA collaboration)
Limits to the Muon Flux from neutralino annihilations in the Sun with the AMANDA Detector
Astropart.Phys. **24** (2006) 459-366
<http://arxiv.org/pdf/astro-ph/0508518>
- 15) M. Ackermann, ..., J. Conrad ... (AMANDA collaboration)
Search For Extraterrestrial Point Sources Of High Energy Neutrinos With AMANDA-II Using Data Collected In 2000-2002
Physical Review D **71** (2005) 077102
<http://arxiv.org/pdf/astro-ph/0412347>
- 14) M. Ackermann, ..., J. Conrad ... (AMANDA collaboration)
Flux Limits on Ultra High Energy Neutrinos with AMANDA-B10
Astropart.Phys. **22** (2005) 339-353, January 2005
http://adsabs.harvard.edu/cgi-bin/nph-bib_query?bibcode=2005APh....22..339A
- 13) M. Ackermann, ..., J. Conrad, ... (AMANDA collaboration)
Search for Neutrino-Induced Cascades with AMANDA
Astropart.Phys. **22** (2004) 127-138, September 2004
http://adsabs.harvard.edu/cgi-bin/nph-bib_query?bibcode=2004APh....22..127A
- 12) J. Ahrens, ..., J. Conrad, ... (SPASE/AMANDA collaboration)
Measurement of the Cosmic Ray Composition at the Knee with the SPASE-2/AMANDA-B10 Detectors
Astropart.Phys. **21** (2004) 565-581, September 2004
- 11) J. Ahrens, ..., J. Conrad, ... (AMANDA collaboration)
Muon Track Reconstruction and Data Selection Techniques in AMANDA
Nuclear Instruments and Methods A524 (2004) 169-194, 21 May 2004
<http://arxiv.org/pdf/astro-ph/0407044>
- 10) J. Ahrens, ..., J. Conrad, ... (SPASE/AMANDA collaborations)
Calibration and Survey of AMANDA with the SPASE Detectors
Nuclear Instruments and Methods A **522** 347-359.(2004)
- 9) J. Ahrens, ..., J. Conrad, ... (AMANDA collaboration)
Search for Extraterrestrial Point Sources of Neutrinos with AMANDA-II
Physical Review Letters **92** (2004) 071102
<http://arxiv.org/pdf/astro-ph/0309585>
- 8) J. Ahrens, ..., J. Conrad, ... (IceCube collaboration)
Sensitivity of the IceCube Detector to Astrophysical Sources of High Energy Muon Neutrinos
Astropart.Phys. **20** (2004) 507-532, February 2004
<http://arxiv.org/pdf/astro-ph/0305196>

- 7) J. Ahrens, ..., J. Conrad, ... (AMANDA collaboration)
Limits on Diffuse Flux of High Energy Neutrinos with the AMANDA-B10 detector
Physical Review Letters **90** (2003) 251101
<http://arxiv.org/pdf/astro-ph/0303218>
- 6) J. Ahrens, ..., J. Conrad, ... (AMANDA collaboration)
Search for Neutrino-Induced Cascades with the AMANDA detector
Physical Review D **67** (2003) 012003
<http://arxiv.org/pdf/astro-ph/0206487>
- 5) J. Ahrens, ..., J. Conrad, ... (AMANDA collaboration)
Search for Point Sources of High-Energy Neutrinos with AMANDA
Astrophysical Journal **83** (2003) 1040-1057
<http://arxiv.org/pdf/astro-ph/0208006>
- 4) J. Ahrens, ..., J. Conrad, ... (AMANDA collaboration)
Limits to the Muon flux from WIMP Annihilation in the Center of the Earth with the AMANDA Detector
Physical Review D **66** (2002) 032006, 1 August 2002
<http://arxiv.org/pdf/astro-ph/0202370>
- 3) J. Ahrens, ..., J. Conrad, ... (AMANDA collaboration)
Observation of High Energy Atmospheric Neutrinos with the Antarctic Muon and Neutrino Detector Array
Physical Review D **66** (2002) 012005, 1. July 2002
<http://prola.aps.org/abstract/PRD/v66/i1/e012005>
- 2) J. Ahrens, ..., J. Conrad, ... (AMANDA collaboration)
Search for Supernova Neutrino Bursts with the AMANDA detector
Astroparticle Physics **16** (2002), 345-359, February 2002
<http://arxiv.org/pdf/astro-ph/0105460>
- 1) E. Andres, ..., J. Conrad, ... (AMANDA collaboration)
Observation of High Energy Neutrinos Using Cerenkov Detectors Embedded Deep in Antarctic Ice
Nature **410** (2001) 441-443. 22.March 2001.
http://adsabs.harvard.edu/cgi-bin/nph-bib_query?bibcode=2001Natur.410..441A

Selected refereed conference proceedings

- 14) J. Conrad
Indirect detection of Dark matter with gamma-rays - status and perspectives
Proceedings Identification of Dark Matter, 2010, Montpellier, France
arXiv1103.5638
- 13) T. Ylinen, Y. Edmonds, E. Bloom, J. Conrad (Fermi LAT Collaboration)
Detecting Dark Matter annihilation lines with Fermi.
Proceedings Identification of Dark Matter, 2008, Stockholm
PoS(idm2008)111
- 12) P. Papini et al. (the PAMELA collaboration)
In-flight performances of the PAMELA satellite experiment. Contribution to Roma International Conference On Astro-Particle Physics (RICAP'07)
Published in Nucl.Instrum.Meth.A**588**:259-266,2008.
- 11) J. Conrad (on behalf of the GLAST-LAT DM&NP working group)
Searches for Dark Matter with the GLAST-LAT
invited contribution to Les Rencontres de Physique de La Vallée d'Aoste, La Thuile, Italy, 4-10 March 2007
<http://arxiv.org/pdf/0706.0852>
- 10) J. Conrad, J. Scargle, T. Ylinen
Statistical Analysis of Detection of and Upper Limits on Dark Matter Lines
contribution (refereed) to 1st International GLAST symposium, Stanford, 5-8 February 2007
AIP Conf.Proc.921:586-587,2007.
- 9) E. Bloom, J. Conrad, Y. Edmonds, G. Godfrey, J. Scargle, L. Wai
GLAST LAT Wimp Line Sensitivity Estimates
contribution (refereed) to 1st International GLAST symposium, Stanford, 5-8 February 2007
AIP Conf.Proc.921:514-515,2007.
- 8) L. Bergström, J. Conrad, J. Edsjö, A. Sellerholm
GLAST sensitivity to cosmological dark matter annihilations into gamma-rays
contribution (refereed) to 1st International GLAST symposium, 5-8 February 2007
AIP Conf.Proc.921:504-505,2007
- 7) P. Carlson and J. Conrad
On the detection of Strange Quark Matter with GLAST
contribution (refereed) to 1st International GLAST symposium, 5-8 February 2007.
AIP Conf.Proc.921:518-519,2007
- 6) L. Baldini, ..., J. Conrad et al.
Preliminary results of the LAT Calibration Unit beam test
contribution (refereed) to 1st International GLAST symposium, 5-8 February v2007.
AIP Conf.Proc.921:190-204,2007.

- 5) J. Conrad
Calculating upper limits and claiming discovery in search for exotic physics
Invited plenary contribution to EPNT, 2006, Uppsala, Sweden, September 2006, Proc. of the First Workshop on Exotic Physics with Neutrino Telescopes, Carlos de los Heros (editor) Uppsala University, January 2007. ISBN 978-91-506-1913-3
<http://arxiv.org/pdf/astro-ph/0612082>
- 4) D. Elia (for the ALICE Silicon Pixel Collaboration)
Performance of ALICE silicon Pixel detector prototypes in high energy beams
contribution (refereed) to International Workshop on Semiconductor Pixel Detectors for Particles and Imaging, Bonn, Germany, September 2005,
Nuclear Instruments and Methods A **565** 30-35.(2006)
- 3) J. Conrad (for the ALICE Silicon Pixel Collaboration)
Beam Tests and Simulation of Prototypes for the ALICE Silicon Pixel Detector
contribution (refereed) to Position Sensitive Devices, Liverpool, September 2005
Published in Nuclear Instruments and Methods A **573** 1.-3. (2007)
<http://arxiv.org/pdf/nucl-ex/0511015>
- 2) D. Elia (for the ALICE Silicon Pixel Collaboration)
contribution (refereed) to 18th International Conference on Ultrarelativistic Nucleus-Nucleus Collisions: Quark Matter 2005 (QM 2005), Budapest, Hungary, August 2005
Published in Czech.J.Phys.55:1635-1638,2005
- 1) J. Conrad, O. Botner, A. Hallgren and C. P. de los Heros
Coverage of Confidence Intervals Calculated in Presence of Systematic Uncertainties
contribution (refereed) to Conference on Advanced Statistical Techniques in Particle Physics, Durham, 2002.
<http://arxiv.org/pdf/hep-ex/0206034>

I am co-author of > 100 conference contributions with the IceCube and ALICE collaborations. Due to limited personal involvement they are omitted here.

Popular

- 5) J. Conrad
De gåtfulla utbrotten på spåren
Forskning & Framsteg 4/2010
- 4) J. Conrad, F. Ryde
First Light for Fermi Gamma Ray Space Telescope
Nordic Space, 2/2009
- 3) J. Conrad, L. Latronico, F. Longo, B. Lott
Fermi Gamma-ray Space Telescope sees first light.
CERN Cour.48N9:13-15,2008.
- 2) P.O. Hulth, P. Ekström, Y. Minaeva, J. Conrad, P. Marciniewski
The Neutrino Telescope AMANDA at the South Pole
Polarforskningssekretariatets årsbok 2001 (2002), 39 -41
- 1) J. Conrad
Ny Astronomi - "first light" for Neutrinoteleskop pa Sydpolen.
Astronomisk Tidskrift 1 (2000), 18-22.

Computer programs

POLE 1.0, Confidence Intervals with Systematic Uncertainties,

http://adsabs.harvard.edu/cgi-bin/nph-bib_query?bibcode=2004CoPhC.158..117C

POLE++, Confidence Intervals with Systematic Uncertainties with considerably enhanced performance and functionality

<http://tegen.home.cern.ch/tegen/statistics.html>, with Fredrik Tegenfeldt.

TRolke, Profile Likelihood Intervals (C++ class, part of the ROOT analysis framework)

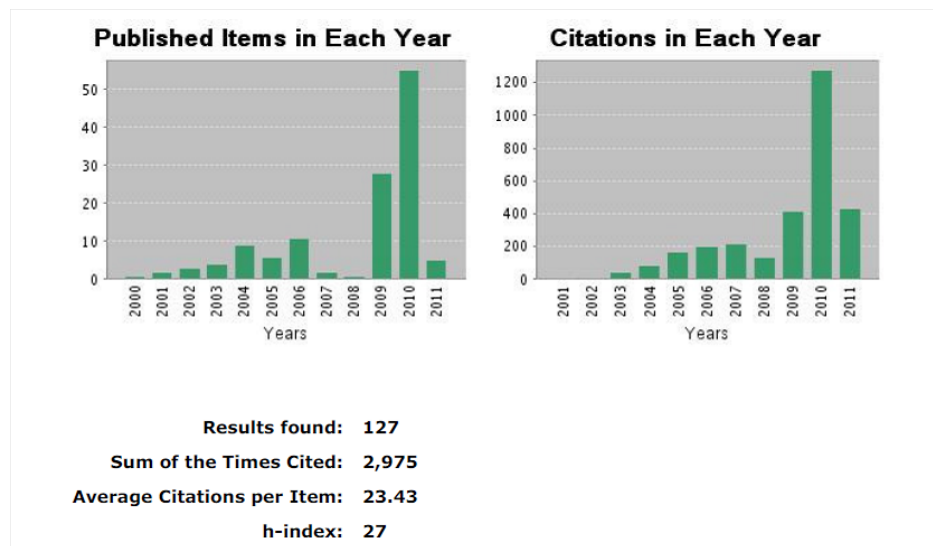


Figure 1: Citation analysis according to ISI, nearly complete