List of Publications

Rita de Cássia dos Anjos

Journal articles

1. R.C. Anjos, L Anchordoqui, et al. Ultrahigh-Energy Cosmic Ray Composition from the Distribution of Arrival Directions. ArXiv:1810.04251. *Physical Review D* Vol: **98**, (123018), 2018.
https://journals.aps.org/prd/abstract/10.1103/PhysRevD.98.123018

2. R. C. Anjos, V. de Souza, Rogerio M. de Almeida and Edivaldo M. Santos, The influence of the observatory latitude on the study of ultra high energy cosmic rays, *Journal of Cosmology and Astroparticle Physics*, Vol:2017, 1475, 2017.
https://iopscience.iop.org/article/10.1088/1475-7516/2017/07/041

3. R. C. Anjos, C. H. Coimbra-Araújo**,** Central accumulation of magnetic flux in massive Seyfert galaxies as a possible engine to trigger ultrahigh energy cosmic rays, *Physical Review D*, Vol:96 (023008), 2017.
https://journals.aps.org/prd/abstract/10.1103/PhysRevD.96.023008

4. C. H. Coimbra-Araújo and **R. C. Anjos**, Stability of perturbed geodesics in *n*D axisymmetric spacetimes, *Classical and Quantum Gravity*, Vol: 33(18), 185010, 2016.
https://iopscience.iop.org/article/10.1088/0264-9381/33/18/185010

5. R. C. Anjos, C. H. Coimbra-Araújo, R. Rocha, V. de Souza, Ultra high energy cosmic rays and possible signature of black strings, *Journal of Cosmology and Astroparticle Physics*, Vol:014, 03014, 2016.
https://iopscience.iop.org/article/10.1088/1475-7516/2016/03/014/meta

6. R. C. Anjos, G. B. Freitas, C. H. Coimbra-Araújo, Analytical Solutions of the Fokker–Planck Equation for Generalized Morse and Hulthén Potentials, *Journal of Statistical Physics*, Vol:162(2), 2016.
https://link.springer.com/article/10.1007/s10955-015-1414-7

7. C. H. Coimbra-Araújo**, R. C. Anjos**, Luminosity of ultrahigh energy cosmic rays and bounds on magnetic luminosity of radio-loud active galactic nuclei, *Physical Review D*, Vol:92(10), 2015.
https://journals.aps.org/prd/abstract/10.1103/PhysRevD.92.103001

8. R. C. Anjos; V. de Souza, A.D. Supanitsky. Upper limits on the total cosmic-ray luminosity of individual sources. *Journal of Cosmology and Astroparticle Physics*, v. 2014, p. 049-049, 2014.
https://iopscience.iop.org/article/10.1088/1475-7516/2014/07/049

As member of the Pierre Auger Collaboration

1. An Indication of Anisotropy in Arrival Directions of Ultra-high-energy Cosmic Rays through Comparison to the Flux Pattern of Extragalactic Gamma-Ray Sources. The Astrophysical Journal, v. 853, p. L29, 2018.

2. The Pierre Auger Collaboration; Multi-resolution anisotropy studies of ultra-high energy cosmic rays detected at the Pierre Auger Observatory. Journal Of Cosmology And Astroparticle Physics, v. 6, p. 026, 2017.

3. The Pierre Auger Collaboration; Spectral Calibration of the Fluorescence Telescopes of the Pierre Auger Observatory. Astroparticle Physics v. 95C, p. 44-56, 2017.

4. The Pierre Auger Collaboration; Observation of a Large-scale Anisotropy in the Arrival Directions of Cosmic Rays above $8x10^{18}$ eV. Science v. 357, p. 1266-1270, 2017. http://science.sciencemag.org/content/357/6357/1266

5. The Pierre Auger Collaboration; Multi-messenger Observations of a Binary Neutron Star Merger. The Astrophysical Journal Letters, v. 848:L12, 2017.

6. The Pierre Auger Collaboration; Calibration of the Logarithmic-Periodic Dipole Antenna (LPDA) Radio Stations at the Pierre Auger Observatory using an Octocopter. Journal of Instrumentation, v. 12, p. T10005, 2017.

7. The Pierre Auger Collaboration; Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. The Astrophysical Journal, v. 850 no.2, L35, 2017.

8. The Pierre Auger Collaboration; Combined fit of spectrum and composition data as measured by the Pierre Auger Observatory. Journal Of Cosmology And Astroparticle Physics, v. 038, p. 04, 2017.

9. The Pierre Auger Collaboration; Muon counting using silicon photomultipliers in the AMIGA detector of the Pierre Auger observatory. Journal of Instrumentation, v. 12, p. P03002-P03002, 2017.

10. The Pierre Auger Collaboration; A Targeted Search for Point Sources of EeV Photons with the Pierre Auger Observatory. The Astrophysical Journal, v. 837, p. L25, 2017.

11. The Pierre Auger Collaboration; Search for photons with energies above 10^{18} eV using the hybrid detector of the Pierre Auger Observatory. Journal Of Cosmology And Astroparticle Physics, v. 2017, p. 009-009, 2017.

12. The Pierre Auger Collaboration; Impact of atmospheric effects on the energy reconstruction of air showers observed by the surface detectors of the Pierre Auger Observatory. Journal of Instrumentation, v. 12, p. P02006-P02006, 2017.

13. The Pierre Auger Collaboration; Evidence for a mixed mass composition at the ankle? in the cosmic-ray spectrum. Physics Letters. B (Print), v. 762, p. 288-295, 2016.

14. The Pierre Auger Collaboration; Search for ultrarelativistic magnetic monopoles with the Pierre Auger observatory. Physical Review D, v. 94, p. 082002, 2016.

15. The Pierre Auger Collaboration; Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory. Physical Review Letters (Print), v. 117, p. 2001, 2016.

16. The Pierre Auger Collaboration; Ultrahigh-energy neutrino follow-up of gravitational wave events GW150914 and GW151226 with the Pierre Auger Observatory. Physical Review D, v. 94, p. 2007, 2016.

17. The Pierre Auger Collaboration; Energy estimation of cosmic rays with the Engineering Radio Array of the Pierre Auger Observatory. Physical Review D, v. 93, p. 2005-1, 2016.

18. The Pierre Auger Collaboration; Measurement of the Radiation Energy in the Radio Signal of Extensive Air Showers as a Universal Estimator of Cosmic-Ray Energy. Physical Review Letters (Print), v. 116, p. 1101-1, 2016.

19. The Pierre Auger Collaboration; Azimuthal asymmetry in the risetime of the surface detector signals of the Pierre Auger Observatory. Physical Review D, v. 93, p. 072006-1-072006-16, 2016.

20. The Pierre Auger Collaboration; Prototype muon detectors for the AMIGA component of the Pierre Auger Observatory. Journal of Instrumentation, v. 11, p. P02012-P02012, 2016.

21. The Pierre Auger Collaboration; Nanosecond-level time synchronization of autonomous radio detector stations for extensive air showers. Journal of Instrumentation, v. 11, p. P01018-P01018, 2016.

22. The Pierre Auger Collaboration; Search for correlations between the arrival directions of IceCube neutrino events and ultrahigh-energy cosmic rays detected by the Pierre Auger Observatory and the Telescope Array. Journal of Cosmology and Astroparticle Physics, v. 01, p. 037, 2016.

As member of the Cherenkov Telescope Array Collaboration

1. Science with the Cherenkov Telescope Array, arXiv:1709.07997, 2017.