

## Наумова Елена Александровна,

( ЛЯП - Научно-экспериментальный отдел физики элементарных частиц - Сектор №1 реакторных нейтрино, младший научный сотрудник)

### Список научных работ

(данные на 20.11.2021)

#### Публикации в рецензируемых журналах (зарубежные):

1. A Study of strange particles produced in neutrino neutral current interactions in the NOMAD experiment.  
*D. Naumov, A. Chukanov, E. Naumova, B. Popov, Nomad Collaboration, Nuclear Physics B*  
Изд:Elsevier, 700, 1-3, 51-68, 2004
  2. Spectral measurement of electron antineutrino oscillation amplitude and frequency at Daya Bay  
*Physical Review Letters*, ISSN:0031-9007 (print), eISSN:1079-7114 (online), Изд:APS, 2013
  3. Independent measurement of the neutrino mixing angle  $\theta_{13}$  via neutron capture on hydrogen at Daya Bay  
*Daya Bay Collaboration (F.P. An (East China U. Sci. Tech., Shanghai) et al.), Physical Review D*, Изд:The American Physical Society., 90, 7, 071101-071107, 2014
  4. The muon system of the Daya Bay Reactor antineutrino experiment  
*Daya Bay Collaboration (F.P. An (East China U. Sci. Tech., Shanghai & Beijing, Inst. High Energy Phys.) et al.), Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, ISSN:0168-9002, eISSN:1872-9576, Изд:Elsevier Science Limited, 773, 11 February 2015, 8–20, 2014
  5. Search for a Light Sterile Neutrino at Daya Bay  
*Daya Bay Collaboration (F.P. An (East China U. Sci. Tech., Shanghai) et al.), Physical Review Letters*, ISSN:0031-9007, eISSN:1079-7114, Изд:American Physical Society, 113, 141802-141808, 2014
  6. New Measurement of Antineutrino Oscillation with the Full Detector Configuration at Daya Bay  
*F. P. An et al. (Daya Bay Collaboration), Physical Review Letters*, Изд:American Physical Society, 115, 11, 111802-111809, 2015
  7. The Detector System of The Daya Bay Reactor Antineutrino Experiment  
*Nuclear Instruments and Methods in Physics Research Section A*, ISSN:0168-9002, Изд:Elsevier, 811, 133-161, 2015
  8. Measurement of the Reactor Antineutrino Flux and Spectrum at Daya Bay  
*Daya Bay Collaboration (F.P. An (East China U. Sci. Tech., Shanghai) et al.), Physical Review*
-

Letters, 116, 6, 061801, 2016

9. New measurement of  $^{13}\text{B}$  via neutron capture on hydrogen at Daya Bay  
Physical Review D, 93, 7, 072011, 2016

10. Improved Search for a Light Sterile Neutrino with the Full Configuration of the Daya Bay Experiment  
*Daya Bay Collaboration (F.P. An (East China U. Sci. Tech., Shanghai) et al.)*, Physical Review Letters, 117, 15, 151802, 2016

11. Limits on Active to Sterile Neutrino Oscillations from Disappearance Searches in the MINOS, Daya Bay, and Bugey-3 Experiments  
*Daya Bay and MINOS Collaborations (P. Adamson (Fermilab) et al.)*, Physical Review Letters, 117, 15, 151801, 2016

12. Measurement of the Reactor Antineutrino Flux and Spectrum at Daya Bay  
*Daya Bay Collaboration (Feng Peng An (East China U. Sci. Tech., Shanghai) et al.)*, Physical Review Letters, ISSN:0031-9007, eISSN:1079-7114, Изд:American Physical Society, 118, 6, 061801, 2016

13. Study of the wave packet treatment of neutrino oscillation at Daya Bay  
*Daya Bay Collaboration (Feng Peng An (East China U. Sci. Tech.) et al.)*, European Physical Journal, C, Изд:Springer, Part of Springer Science+Business Media, 77, 9, 606, 2017

14. Measurement of electron antineutrino oscillation based on 1230 days of operation of the Daya Bay experiment  
*Daya Bay Collaboration (Feng Peng An (East China U. Sci. Tech.) et al.)*, Phys.Rev. D, Изд:APS, 95, 7, 072006, 2017

15. Evolution of the Reactor Antineutrino Flux and Spectrum at Daya Bay  
*Daya Bay Collaboration (F.P. An (East China U. Sci. Tech., Shanghai) et al.)*, Physical Review Letters, ISSN:0031-9007, eISSN:1079-7114, Изд:American Physical Society, 118, 25, 251801, 2017

16. Improved Measurement of the Reactor Antineutrino Flux and Spectrum at Daya Bay  
*a Bay Collaboration (Feng Peng An (East China U. Sci. Tech.) et al.)*, Chinese Physics C, ISSN:1674-1137, 41, 1, 013002, 2017

17. Seasonal Variation of the Underground Cosmic Muon Flux Observed at Daya Bay  
*Daya Bay Collaboration (F.P. An (East China U. Sci. Tech., Shanghai) et al.)*, Journal of Cosmology and Astroparticle Physics, ISSN:1475-7516, Изд:IOP Publishing and SISSA., 1801, 01, 001, 2018

18. Cosmogenic neutron production at Daya Bay  
*Daya Bay Collaboration (Feng Peng An (East China U. Sci. Tech.) et al.)*, Physical Review D, Изд:The American Physical Society., 97, 5, 052009, 2018

---

19. Improved Measurement of the Reactor Antineutrino Flux at Daya Bay  
*Daya Bay Collaboration (Feng Peng An (East China U. Sci. Tech.) et al.)*, Physical Review D, Изд:The American Physical Society., 100, 5, 052004, 2019
  20. Measurement of the Electron Antineutrino Oscillation with 1958 Days of Operation at Daya Bay  
*Daya Bay Collaboration (Feng Peng An (East China U. Sci. Tech.) et al.)*, Physical Review Letters, ISSN:0031-9007, eISSN:1079-7114, Изд:American Physical Societ., 121, 24, 241805, 2018
  21. Search for a time-varying electron antineutrino signal at Daya Bay  
*Daya Bay Collaboration (Feng Peng An (East China U. Sci. Tech.) et al.)*, Physical Review D, Изд:The American Physical Society., 98, 9, 092013, 2018
  22. A high precision calibration of the nonlinear energy response at Daya Bay  
*Daya Bay Collaboration (Feng Peng An (East China U. Sci. Tech., Shanghai) et al.)*, Nuclear Instruments and Methods in Physics Research Section A, ISSN:0168-9002, Изд:Elsevier, 940, 230-242, 2019
  23. Extraction of the  $^{235}\text{U}$  and  $^{239}\text{Pu}$  Antineutrino Spectra at Daya Bay  
*Daya Bay Collaboration (Feng Peng An (East China U. Sci. Tech.) et al.)*, Physical Review Letters, ISSN:0031-9007, eISSN:1079-7114, Изд:American Physical Societ., 123, 11, 111801, 2019
  24. Improved Constraints on Sterile Neutrino Mixing from Disappearance Searches in the MINOS, MINOS+, Daya Bay, and Bugey-3 Experiments  
*Minos and Daya Bay Collaboration (P. Adamson(Fermilab) et al.)*, Physical Review Letters, ISSN:0031-9007, eISSN:1079-7114, Изд:American Physical Societ., 125, 7, 071801, 2020
  25. Feasibility and physics potential of detecting  $^8\text{B}$  solar neutrinos at JUNO  
*JUNO Collaborations (Angel Abusleme (Chile U., Catolica) et al.)*, Chinese Physics C, ISSN:1674-1137, 45, 2, 023004, 2021
  26. Optimization of the JUNO liquid scintillator composition using a Daya Bay antineutrino detector  
*JUNO and Daya Bay Collaborations (A. Abusleme (Chile U., Catolica) et al.)*, Nuclear Instruments and Methods in Physics Research Section A, ISSN:0168-9002, Изд:Elsevier, 988, 164823, 2021
  27. Search for electron-antineutrinos associated with gravitational-wave events GW150914, GW151012, GW151226, GW170104, GW170608, GW170814, and GW170817 at Daya Bay  
*Daya Bay Collaboration (F.P. An (East China U. Sci. Tech., Shanghai) et al.)*, Chinese Physics C, ISSN:1674-1137, 45, 5, 055001, 2021
  28. Calibration Strategy of the JUNO Experiment  
*JUNO Collaboration (Angel Abusleme (Chile U., Catolica) et al.)*, Journal of High Energy Physics, ISSN:1029-8479, 03, 004, 2021
  29. Antineutrino energy spectrum unfolding based on the Daya Bay measurement and its
-

applications

*Daya Bay Collaboration (F.P. An (East China U. Sci. Tech., Shanghai) et al.), Chinese Physics C, ISSN:1674-1137, 45, 7, 073001, 2021*

---

**Материалы научных мероприятий (международные, устный доклад):**

1. X Workshop on High Energy Spin Physics (NATO ARW DUBNS-SPIN-03), BLTP, JINR, Dubna, Russia

*Spin alignment of  $K^*$  (892) vector mesons in  $\nu_\mu$  interactions and  $\Lambda$  and  $-\Lambda$  polarization in neutrino neutral current interactions as measured in the NOMAD experiment, A. Chukanov, D. Naumov, E. Naumova, B. Popov for the NOMAD collaboration, 301, 2003*

---

**Электронные публикации:**

1. Reconstruction with ADC and FADC in Daya Bay.

*Ilya Butorov, Maxim Gonchar, Dmitry V.Naumov, Elena A.Naumova, 2012*

2. JUNO Conceptual Design Report

*JUNO Collaboration (Zelimir Djurcic et al.), e-Print: arXiv:1508.07166 [physics.ins-det], 2015*

3. Response to Comment on Daya Bay's definition and use of  $\Delta(m_{ee}^2)$

*Daya Bay Collaboration (D. Adey (Beijing, Inst. High Energy Phys.) et al.), 2019*

4. TAO Conceptual Design Report: A Precision Measurement of the Reactor Antineutrino Spectrum with Sub-percent Energy Resolution

*JUNO Collaboration (Angel Abusleme(Chile U., Catolica) et al.), 2020*

5. Joint Determination of Reactor Antineutrino Spectra from  $^{235}\text{U}$  and  $^{239}\text{Pu}$  Fission by Daya Bay and PROSPECT

*Daya Bay Collaboration (F.P. An, M. Andriamirado et al. ), 2021*

6. Radioactivity control strategy for the JUNO detector

*JUNO Collaboration (Angel Abusleme et al.), 2021*

---

**Другие публикации:**

1. Fedra Virtual Monte Carlo. Applications

*Artem V.Chukanov, Dmitry V.Naumov, Elena A.Naumova, Andrey S.Sheshukov, Svetlana G.Zemskova, 31, 2008*

---