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### Research Areas

Physics

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Search for an eV-Scale Sterile Neutrino Using Improved High-Energy  $\nu_{\mu}$  Event Reconstruction in IceCube**  
Abbasi R., Ackermann M., Adams J., Agarwalla S. K., Aguilar J. A., Ahlers M., Alameddine J. M., Amin N. M., Andeen K., Argüelles C., et al.  
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- II. **Exploration of mass splitting and muon/tau mixing parameters for an eV-scale sterile neutrino with IceCube**  
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- III. **Search for Joint Multimessenger Signals from Potential Galactic Cosmic-Ray Accelerators with HAWC and IceCube**  
Alfaro R., Alvarez C., Arteaga-Velazquez J. C., Avila Rojas D., Solares H. A. A., Babu R., Belmont-Moreno E., Caballero-Mora K. S., Capistran T., Carraminana A., et al.  
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- IV. **Probing the Connection between IceCube Neutrinos and MOJAVE AGN**  
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- V. **Searching for topological dark matter in LIGO data**  
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- VI. **Ultralight vector dark matter search using data from the KAGRA O3GK run**  
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- VII. **Search for Gravitational-lensing Signatures in the Full Third Observing Run of the LIGO-Virgo Network**  
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- VIII. **Characterization of the astrophysical diffuse neutrino flux using starting track events in IceCube**  
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- IX. **Gravitational-wave matched filtering on a quantum computer**  
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- X. **Citizen science for IceCube: *Name that Neutrino***  
Abbasi R., Ackermann M., Adams J., Agarwalla S. K., Aguilar J. A., Ahlers M., Alameddine J. M., Amin N. M., Andeen K., Anton G., et al.  
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- XI. **Improved modeling of in-ice particle showers for IceCube event reconstruction**  
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- XII. **Search for decoherence from quantum gravity with atmospheric neutrinos**  
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- XIII. **All-sky Search for Transient Astrophysical Neutrino Emission with 10 Years of IceCube Cascade Events**  
Abbasi R., Ackermann M., Adams J., Agarwalla S. K., Aguilar J. A., Ahlers M., Alameddine J. M., Amin N. M., Andeen K., Anton G., et al.  
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- XIV. **Search for Gravitational-wave Transients Associated with Magnetar Bursts in Advanced LIGO and Advanced Virgo Data from the Third Observing Run**  
Abbott R., Abe H., Acernese F., Ackley K., Adhikari N., Adhikari R. X., Adkins V. K., Adya V. B., Affeldt C., Agarwal D., et al.  
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- XV. **Observation of Seven Astrophysical Tau Neutrino Candidates with IceCube**  
Abbasi R., Ackermann M., Adams J., Agarwalla S. K., Aguilar J. A., Ahlers M., Alameddine J. M., Amin N. M., Andeen K., Anton G., et al.  
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- XVI. **Search for 10-1000 GeV Neutrinos from Gamma-Ray Bursts with IceCube**  
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- XVII. **A Joint Fermi-GBM and Swift-BAT Analysis of Gravitational-wave Candidates from the Third Gravitational-wave Observing Run**  
Fletcher C., Wood J., Hamburg R., Veres P., Hui C. M., Bissaldi E., Briggs M. S., Burns E., Cleveland W. H., Giles M. M., et al.  
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- XVIII. **Search for Continuous and Transient Neutrino Emission Associated with IceCube's Highest-energy Tracks: An 11 yr Analysis**  
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- XIX. **GWTC-2.1: Deep extended catalog of compact binary coalescences observed by LIGO and Virgo during the first half of the third observing run**

Abbott R., Abbott T. D., Acernese F., Ackley K., Adams C., Adhikari N., Adhikari R. X., Adya V. B., Affeldt C., Agarwal D., et al.

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- XX. **In situ estimation of ice crystal properties at the South Pole using LED calibration data from the IceCube Neutrino Observatory**  
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- XXI. **Search for Galactic Core-collapse Supernovae in a Decade of Data Taken with the IceCube Neutrino Observatory**  
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- XXII. **A Search for IceCube Sub-TeV Neutrinos Correlated with Gravitational-wave Events Detected By LIGO/Virgo**  
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- XXIII. **Search for neutrino lines from dark matter annihilation and decay with IceCube**  
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- XXIV. **IceCat-1: The IceCube Event Catalog of Alert Tracks**  
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- XXV. **Detecting fundamental vector fields with LISA**  
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- XXVI. **GWTC-3: Compact Binary Coalescences Observed by LIGO and Virgo during the Second Part of the Third Observing Run**  
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- XXVII. **Search for Extended Sources of Neutrino Emission in the Galactic Plane with IceCube**  
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- XXVIII. **Search for Gravitational Waves Associated with Fast Radio Bursts Detected by CHIME/FRB during the LIGO-Virgo Observing Run O3a**  
Abbott R., Abbott T., Acernese F., Ackley K., Adams C., Adhikari N., Adhikari R., Adya V., Affeldt C., Agarwal D., et al.  
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- XXIX. **Observation of seasonal variations of the flux of high-energy atmospheric neutrinos with IceCube**  
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- XXX. **Search for Correlations of High-energy Neutrinos Detected in IceCube with Radio-bright AGN and Gamma-Ray Emission from Blazars**  
Abbasi R., Ackermann M., Adams J., Agarwalla S., Aguilar J., Ahlers M., Alameddine J., Amin N., Andeen K., Anton G., et al.  
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- XXXI. **Search for sub-TeV Neutrino Emission from Novae with IceCube-DeepCore**

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- XXXII. **Open Data from the Third Observing Run of LIGO, Virgo, KAGRA, and GEO**  
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- XXXIII. **Measurement of atmospheric neutrino mixing with improved IceCube DeepCore calibration and data processing**  
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- XXXIV. **Constraints on Populations of Neutrino Sources from Searches in the Directions of IceCube Neutrino Alerts**  
Abbasi R., Ackermann M., Adams J., Aggarwal N., Aguilar J., Ahlers M., Alameddine J., Alves A., Amin N., Andeen K., et al.  
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- XXXV. **Constraints on the Cosmic Expansion History from GWTC-3**  
Abbott R., Abe H., Acernese F., Ackley K., Adhikari N., Adhikari R., Adkins V., Adya V., Affeldt C., Agarwal D., et al.  
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- XXXVI. **Constraining High-energy Neutrino Emission from Supernovae with IceCube**  
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- XXXVII. **Multimessenger emission from tidal waves in neutron star oceans**  
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- XXXVIII. **D-Egg: a dual PMT optical module for IceCube**  
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- XXXIX. **A Search for Coincident Neutrino Emission from Fast Radio Bursts with Seven Years of IceCube Cascade Events**  
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- XL. **Searches for Neutrinos from Large High Altitude Air Shower Observatory Ultra-high-energy  $\gamma$ -Ray Sources Using the IceCube Neutrino Observatory**  
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- XLI. **Limits on Neutrino Emission from GRB 221009A from MeV to PeV Using the IceCube Neutrino Observatory**  
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- XLII. **IceCube Search for Neutrinos Coincident with Gravitational Wave Events from LIGO/Virgo Run O3**  
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- XLIII. **Population of Merging Compact Binaries Inferred Using Gravitational Waves through GWTC-3**  
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- XLIV. **Model-based Cross-correlation Search for Gravitational Waves from the Low-mass X-Ray Binary Scorpius X-1 in LIGO O3 Data**  
Abbott R., Abe H., Acernese F., Ackley K., Adhichary S., Adhikari N., Adhikari R., Adkins V., Adya V., Affeldt C., et al.  
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- XLV. **All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO and Advanced Virgo O3 data**  
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- XLVI. **Graph Neural Networks for low-energy event classification & reconstruction in IceCube**  
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- XLVII. **Search for gravitational waves from Scorpius X-1 with a hidden Markov model in O3 LIGO data**  
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- XLVIII. **Search for continuous gravitational wave emission from the Milky Way center in O3 LIGO-Virgo data**  
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- XLIX. **Searches for Gravitational Waves from Known Pulsars at Two Harmonics in the Second and Third LIGO-Virgo Observing Runs**  
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- L. **Search for Subsolar-Mass Binaries in the First Half of Advanced LIGO's and Advanced Virgo's Third Observing Run**  
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- LI. **All-sky, all-frequency directional search for persistent gravitational waves from Advanced LIGO's and Advanced Virgo's first three observing runs**  
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- LII. **First joint observation by the underground gravitational-wave detector KAGRA with GEO 600**  
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- LIII. **Narrowband Searches for Continuous and Long-duration Transient Gravitational Waves from Known Pulsars in the LIGO-Virgo Third Observing Run**  
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- LIV. **All-sky search for gravitational wave emission from scalar boson clouds around spinning black holes in LIGO O3 data**  
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- LV. Search of the early O3 LIGO data for continuous gravitational waves from the Cassiopeia A and Vela Jr. supernova remnants**  
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- LVI. Probing the dark Solar system: detecting binary asteroids with a space-based interferometric asteroid explorer**  
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- LVII. Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO-Virgo Run O3b**  
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- LVIII. Constraints on dark photon dark matter using data from LIGO's and Virgo's third observing run**  
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- LIX. Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo**  
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- LX. Generalized approach to matched filtering using neural networks**  
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- LXI. Search for continuous gravitational waves from 20 accreting millisecond x-ray pulsars in O3 LIGO data**  
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- LXII. All-sky search for short gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run**  
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- LXIII. Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGO-Virgo's Third Observing Run**  
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- LXIV. Characterizing the Observation Bias in Gravitational-wave Detections and Finding Structured Population Properties**  
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- LXV. All-sky search for long-duration gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run**  
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- LXVI. Searches for Continuous Gravitational Waves from Young Supernova Remnants in the Early Third Observing Run of Advanced LIGO and Virgo**  
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- LXVII. **Constraints from LIGO O3 Data on Gravitational-wave Emission Due to R-modes in the Glitching Pulsar PSR J0537-6910**  
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- LXVIII. **The IceCube Pie Chart: Relative Source Contributions to the Cosmic Neutrino Flux**  
Bartos I., Veske D., Kowalski M., Márka Z., Márka S.  
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- LXIX. **All-sky search for continuous gravitational waves from isolated neutron stars in the early O3 LIGO data**  
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- LXX. **An Archival Search for Neutron-star Mergers in Gravitational Waves and Very-high-energy Gamma Rays**  
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- LXXI. **Upper limits on the isotropic gravitational-wave background from Advanced LIGO and Advanced Virgo's third observing run**  
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