



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



ALEXIS ARMANDO AGUILAR AREVALO

Datos Generales

Nombre: ALEXIS ARMANDO AGUILAR AREVALO

Máximo nivel de estudios: POSDOCTORADO

Antigüedad académica en la UNAM: 18 años

Nombramientos

Vigente: INVESTIGADOR TITULAR A TC Definitivo
Instituto de Ciencias Nucleares
Desde 16-10-2017

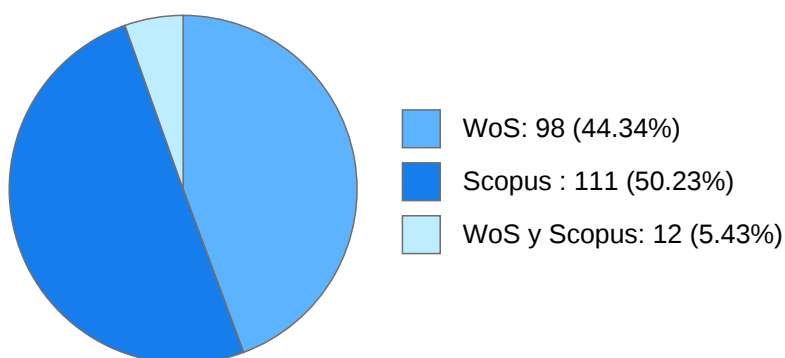
Estímulos, programas, premios y reconocimientos

SNI II 2022 - VIGENTE
SNI I 2011 - 2021
PRIDE C 2016 - 2024
PRIDE B 2009 - 2016

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Measurement of the response function of the PIENU calorimeter	ALEXIS ARMANDO AGUILAR AREVALO MARIO IVAN MARTINEZ HERNANDEZ Aoki M. et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATO RS SPECTROMETER S DETECTORS AND ASSOCIATED EQUIPMENT	2025
2	Search for Reactor-Produced Millicharged Particles with Skipper-CCDs at the CONNIE and Atucha-II Experiments	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ YOUSSEF SARKIS MOBARAK et al.	PHYSICAL REVIEW LETTERS	2025
3	Addendum to "testing meson portal dark sector solutions to the MiniBooNE anomaly at CCM"	ALEXIS ARMANDO AGUILAR AREVALO MARISOL CHAVEZ ESTRADA JUAN CARLOS D'OLIVO SAEZ et al.	PHYSICAL REVIEW D	2025

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4	Searching for millicharged particles with 1 kg of Skipper-CCDs using the NuMI beam at Fermilab	BRENDA AUREA CERVANTES VERGARA JUAN CARLOS D'OLIVO SAEZ ALEXIS ARMANDO AGUILAR AREVALO et al.	JOURNAL OF HIGH ENERGY PHYSICS	2024
5	Confirmation of the spectral excess in DAMIC at SNOLAB with skipper CCDs	ALEXIS ARMANDO AGUILAR AREVALO BRENDA AUREA CERVANTES VERGARA JUAN CARLOS D'OLIVO SAEZ et al.	PHYSICAL REVIEW D	2024
6	Recent study and results for ionization efficiency theory in pure materials	YOUSSEF SARKIS MOBARAK ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
7	Upgraded CONNIE experiment with Skipper CCDs/CONNIE First results with Skipper-CCDs	ALEXIS ARMANDO AGUILAR AREVALO	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
8	Testing meson portal dark sector solutions to the MiniBooNE anomaly at the Coherent CAPTAIN Mills experiment	ALEXIS ARMANDO AGUILAR AREVALO MARISOL CHAVEZ ESTRADA JUAN CARLOS D'OLIVO SAEZ et al.	PHYSICAL REVIEW D	2024
9	Lindhard integral equation with binding energy applied to light and charge yields of nuclear recoils in noble liquid detectors	YOUSSEF SARKIS MOBARAK ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ	JOURNAL OF INSTRUMENTATI ON	2023
10	Prospects for detecting axionlike particles at the Coherent CAPTAIN-Mills experiment	ALEXIS ARMANDO AGUILAR AREVALO MARISOL CHAVEZ ESTRADA JUAN CARLOS D'OLIVO SAEZ et al.	PHYSICAL REVIEW D	2023
11	Ionization efficiency for nuclear recoils in silicon from about 50 eV to 3 MeV	YOUSSEF SARKIS MOBARAK ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ	PHYSICAL REVIEW A	2023
12	Skipper-CCD sensors for the Oscura experiment: Requirements and preliminary tests	BRENDA AUREA CERVANTES VERGARA ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ et al.	JOURNAL OF INSTRUMENTATI ON	2023
13	Results on Low-Mass Weakly Interacting Massive Particles from a 11 kg d Target Exposure of DAMIC at SNOLAB	ALEXIS ARMANDO AGUILAR AREVALO BRENDA AUREA CERVANTES VERGARA JUAN CARLOS D'OLIVO SAEZ et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
14	Gamma-ray flux measurement and geotechnical studies at the selected site for the LABChico underground laboratory	ALEXIS ARMANDO AGUILAR AREVALO CARLOS CANET MIQUEL JUAN CARLOS D'OLIVO SAEZ et al.	EUROPEAN PHYSICAL JOURNAL PLUS	2022

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15	Correction to: Gamma-ray flux measurement and geotechnical studies at the selected site for the LABChico underground laboratory (The European Physical Journal Plus, (2022), 137, 2, (210), 10.1140/epjp/s13360-022-02407-1)	ALEXIS ARMANDO AGUILAR AREVALO CARLOS CANET MIQUEL JUAN CARLOS D'OLIVO SAEZ et al.	EUROPEAN PHYSICAL JOURNAL PLUS	2022
16	Characterization of the background spectrum in DAMIC at SNOLAB	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ JOSE FRANCISCO FAVELA PEREZ et al.	PHYSICAL REVIEW D	2022
17	Volume reduction of water samples to increase sensitivity for radioassay of lead contamination	ALEXIS ARMANDO AGUILAR AREVALO CARLOS CANET MIQUEL JUAN CARLOS D'OLIVO SAEZ et al.	Applied Water Science	2022
18	Search for coherent elastic neutrino-nucleus scattering at a nuclear reactor with CONNIE 2019 data	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ YOUSSEF SARKIS MOBARAK et al.	JOURNAL OF HIGH ENERGY PHYSICS	2022
19	Contextual Isotope Ranking Criteria for Peak Identification in Gamma Spectroscopy Using a Large Database	ALEXIS ARMANDO AGUILAR AREVALO CARLOS CANET MIQUEL JUAN CARLOS D'OLIVO SAEZ et al.	IEEE TRANSACTIONS ON NUCLEAR SCIENCE	2022
20	First dark matter search results from Coherent CAPTAIN-Mills	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ D. S. M. Alves et al.	PHYSICAL REVIEW D	2022
21	First Leptophobic Dark Matter Search from the Coherent-CAPTAIN-Mills Liquid Argon Detector	ALEXIS ARMANDO AGUILAR AREVALO MARISOL CHAVEZ ESTRADA JUAN CARLOS D'OLIVO SAEZ et al.	PHYSICAL REVIEW LETTERS	2022
22	MiniBooNE and MicroBooNE Combined Fit to a 3+1 Sterile Neutrino Scenario	ALEXIS ARMANDO AGUILAR AREVALO Brown B.C. Conrad J.M. et al.	PHYSICAL REVIEW LETTERS	2022
23	A method to measure the integral vertical intensity and angular distribution of atmospheric muons with a stationary plastic scintillator bar detector	ALEXIS ARMANDO AGUILAR AREVALO Bryan Olmos Yanez	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATO RS SPECTROMETER S DETECTORS AND ASSOCIATED EQUIPMENT	2021
24	Updated MiniBooNE neutrino oscillation results with increased data and new background studies	ALEXIS ARMANDO AGUILAR AREVALO B. C. Brown J. M. Conrad et al.	PHYSICAL REVIEW D	2021

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25	Search for three body pion decays $\pi^+(\rightarrow l^+ \nu X)$	ALEXIS ARMANDO AGUILAR AREVALO Aoki M. Blecher M. et al.	PHYSICAL REVIEW D	2021
26	Measurement of the bulk radioactive contamination of detector-grade silicon with DAMIC at SNOLAB	ALEXIS ARMANDO AGUILAR AREVALO BRENDA AUREA CERVANTES VERGARA JUAN CARLOS D'OLIVO SAEZ et al.	JOURNAL OF INSTRUMENTATI ON	2021
27	A Study of the Ionization Efficiency for Nuclear Recoils in Pure Crystals	YOUSSEF SARKIS MOBARAK ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ	PHYSICS OF ATOMIC NUCLEI	2021
28	Results on Low-Mass Weakly Interacting Massive Particles from an 11 kg d Target Exposure of DAMIC at SNOLAB	ALEXIS ARMANDO AGUILAR AREVALO BRENDA AUREA CERVANTES VERGARA JUAN CARLOS D'OLIVO SAEZ et al.	PHYSICAL REVIEW LETTERS	2020
29	MiniBooNE-DM: A dark matter search in a proton beam dump	ALEXIS ARMANDO AGUILAR AREVALO	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2020
30	Neutrino Oscillation Analysis of 217 Live Days of Daya Bay and 500 Live Days of RENO	ALEXIS ARMANDO AGUILAR AREVALO Acero M.A. Polo-Toledo D.J.	ADVANCES IN HIGH ENERGY PHYSICS	2020
31	Improved search for two body muon decay $\mu^+(\rightarrow e^+ X-H)$	ALEXIS ARMANDO AGUILAR AREVALO M. Aoki M. Blecher et al.	PHYSICAL REVIEW D	2020
32	Search for light mediators in the low-energy data of the CONNIE reactor neutrino experiment	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ CARLOS ALBERTO ROMERO CASTILLO et al.	JOURNAL OF HIGH ENERGY PHYSICS	2020
33	Study of the ionization efficiency for nuclear recoils in pure crystals	YOUSSEF SARKIS MOBARAK ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ	PHYSICAL REVIEW D	2020
34	Search for the rare decays $\pi^+(\rightarrow \mu^+ \nu(\mu) \nu(\nu) \overline{\nu})$ and $\pi^+(\rightarrow e^+ \nu(e) \nu(\nu) \overline{\nu})$	ALEXIS ARMANDO AGUILAR AREVALO M. Aoki M. Blecher et al.	PHYSICAL REVIEW D	2020
35	Dosimetry and calorimetry performance of a scientific CMOS camera for environmental monitoring	ALEXIS ARMANDO AGUILAR AREVALO CARLOS CANET MIQUEL JUAN CARLOS D'OLIVO SAEZ et al.	SENSORS	2020
36	Characterization of germanium detectors for the first underground laboratory in Mexico	ALEXIS ARMANDO AGUILAR AREVALO SANDRA NASHIELI ALVARADO MIJANGOS CARLOS CANET MIQUEL et al.	JOURNAL OF INSTRUMENTATI ON	2020
37	Results from 2015 and the 2016 upgrade of the CONNIE experiment for detecting coherent neutrino nucleus scattering	ALEXIS ARMANDO AGUILAR AREVALO BRENDA AUREA CERVANTES VERGARA JUAN CARLOS D'OLIVO SAEZ et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2019

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38	Search for heavy neutrinos in $p \rightarrow e \mu \gamma$ decay	ALEXIS ARMANDO AGUILAR AREVALO Aoki M. Blecher M. et al.	PHYSICS LETTERS B	2019
39	Constraints on Light Dark Matter Particles Interacting with Electrons from DAMIC at SNOLAB	ALEXIS ARMANDO AGUILAR AREVALO BRENDA AUREA CERVANTES VERGARA JUAN CARLOS D'OLIVO SAEZ et al.	PHYSICAL REVIEW LETTERS	2019
40	Exploring low-energy neutrino physics with the Coherent Neutrino Nucleus Interaction Experiment	ALEXIS ARMANDO AGUILAR AREVALO BRENDA AUREA CERVANTES VERGARA JUAN CARLOS D'OLIVO SAEZ et al.	PHYSICAL REVIEW D	2019
41	First Measurement of Monoenergetic Muon Neutrino Charged Current Interactions	ALEXIS ARMANDO AGUILAR AREVALO Brown B.C. Bugel L. et al.	PHYSICAL REVIEW LETTERS	2018
42	Improved search for heavy neutrinos in the decay $\tilde{\chi}^0 \rightarrow e \tilde{\chi}^{\pm} \nu_e$	ALEXIS ARMANDO AGUILAR AREVALO M. Aoki M. Blecher et al.	PHYSICAL REVIEW D	2018
43	Significant Excess of Electronlike Events in the MiniBooNE Short-Baseline Neutrino Experiment	ALEXIS ARMANDO AGUILAR AREVALO B. C. Brown L. Bugel et al.	PHYSICAL REVIEW LETTERS	2018
44	Dark matter search in nucleon, pion, and electron channels from a proton beam dump with MiniBooNE	ALEXIS ARMANDO AGUILAR AREVALO M. Backfish A. Bashyal et al.	PHYSICAL REVIEW D	2018
45	Precision measurement of the $p \rightarrow e e^+ e^-$ branching ratio in the PIENU experiment	ALEXIS ARMANDO AGUILAR AREVALO Ito S. Aoki M. et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2017
46	Search for massive neutrinos in $p \rightarrow e e^+ e^-$ decay	ALEXIS ARMANDO AGUILAR AREVALO Ito, S. Aoki, M. et al.	HYPERFINE INTERACTIONS	2017
47	Initial results from the PIENU experiment	ALEXIS ARMANDO AGUILAR AREVALO Sullivan, T. Aoki, M. et al.	HYPERFINE INTERACTIONS	2017
48	First Direct-Detection Constraints on eV-Scale Hidden-Photon Dark Matter with DAMIC at SNOLAB	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ YOUSSEF SARKIS MOBARAK et al.	PHYSICAL REVIEW LETTERS	2017
49	Dark Matter Search in a Proton Beam Dump with MiniBooNE	ALEXIS ARMANDO AGUILAR AREVALO Backfish, M. Bashyal, A. et al.	PHYSICAL REVIEW LETTERS	2017
50	Search for Dark Matter in the beam-dump of a proton beam with MiniBooNE	ALEXIS ARMANDO AGUILAR AREVALO MiniBooNE-DM Collaboration	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2017
51	Potential of CCDs for the study of sterile neutrino oscillations via Coherent Neutrino-Nucleus Elastic Scattering	MARISOL CHAVEZ ESTRADA ALEXIS ARMANDO AGUILAR AREVALO	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2017

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52	The CONNIE experiment	ALEXIS ARMANDO AGUILAR AREVALO BRENDA AUREA CERVANTES VERGARA JUAN CARLOS D'OLIVO SAEZ et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2016
53	Initial Results from the PIENU experiment	ALEXIS ARMANDO AGUILAR AREVALO Sullivan, T. Aoki, M. et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2016
54	Search for low-mass WIMPs in a 0.6 kg day exposure of the DAMIC experiment at SNOLAB SEARCH for LOW-MASS WIMPs in A 0.6 KG DAY ... A. AGUILAR-AREVALO et al.	ALEXIS ARMANDO AGUILAR AREVALO BRENDA AUREA CERVANTES VERGARA JUAN CARLOS D'OLIVO SAEZ et al.	PHYSICAL REVIEW D	2016
55	Results of the engineering run of the coherent neutrino nucleus interaction experiment (CONNIE)	ALEXIS ARMANDO AGUILAR AREVALO BRENDA AUREA CERVANTES VERGARA JUAN CARLOS D'OLIVO SAEZ et al.	JOURNAL OF INSTRUMENTATI ON	2016
56	Measurement of radioactive contamination in the CCD's of the DAMIC experiment	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ YOUSSEF SARKIS MOBARAK et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2016
57	Measurement of the antineutrino neutral-current elastic differential cross section	ALEXIS ARMANDO AGUILAR AREVALO Brown, B. C. Bugel, L. et al.	PHYSICAL REVIEW D	2015
58	Detector for measuring the $p \rightarrow e^+ e^-$ branching fraction	ALEXIS ARMANDO AGUILAR AREVALO Aoki, M. Blecher, M. et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATO RS SPECTROMETER S DETECTORS AND ASSOCIATED EQUIPMENT	2015
59	Improved Measurement of the $p \rightarrow e^+ e^-$ Branching Ratio	ALEXIS ARMANDO AGUILAR AREVALO Aoki, M. Blecher, M. et al.	PHYSICAL REVIEW LETTERS	2015
60	Measurement of radioactive contamination in the high-resistivity silicon CCDs of the DAMIC experiment	ALEXIS ARMANDO AGUILAR AREVALO A. Castaneda Vazquez JUAN CARLOS D'OLIVO SAEZ et al.	JOURNAL OF INSTRUMENTATI ON	2015

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61	Antineutrino flux from the Laguna Verde nuclear power plant	Marisol ChavezEstrada ALEXIS ARMANDO AGUILAR AREVALO	ADVANCES IN HIGH ENERGY PHYSICS	2015
62	Status of the PIENU experiment at TRIUMF	ALEXIS ARMANDO AGUILAR AREVALO Ito S. Aoki M. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2015
63	Neutrinos: Mysterious particles with fascinating features, which led to the physics Nobel Prize 2015	ALEXIS ARMANDO AGUILAR AREVALO WOLFGANG PETER BIETENHOLZ	REVISTA CUBANA DE FISICA	2015
64	DAMIC at SNOLAB	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ YOUSSEF SARKIS MOBARAK et al.	Physics Procedia	2015
65	The DAMIC dark matter experiment	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ YOUSSEF SARKIS MOBARAK et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2015
66	Status of the PIENU experiment	ALEXIS ARMANDO AGUILAR AREVALO Numao T. Aoki M. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2014
67	PIENU experiment at TRIUMF: A sensitive probe of new physics	ALEXIS ARMANDO AGUILAR AREVALO Sher A. Aoki M. et al.	AIP Conference Proceedings	2013
68	Juan Carlos D'Olive: A Portrait	ALEXIS ARMANDO AGUILAR AREVALO	AIP Conference Proceedings	2013
69	Test of Lorentz and CPT violation with short baseline neutrino oscillation excesses	ALEXIS ARMANDO AGUILAR AREVALO Anderson, C. E. Bazarko, A. O. et al.	PHYSICS LETTERS B	2013
70	Improved search for $\nu_{\mu} \rightarrow \nu_e$ oscillations in the MiniBooNE experiment	ALEXIS ARMANDO AGUILAR AREVALO Brown, B. C. Bugel, L. et al.	PHYSICAL REVIEW LETTERS	2013
71	First measurement of the muon antineutrino double-differential charged-current quasielastic cross section	ALEXIS ARMANDO AGUILAR AREVALO Brown, B. C. Bugel, L. et al.	PHYSICAL REVIEW D	2013
72	Dual baseline search for muon neutrino disappearance at $0.5 \text{ eV}(2) < \Delta m^2 < 40 \text{ eV}(2)$	ALEXIS ARMANDO AGUILAR AREVALO Alcaraz-Aunión, J. L. Anderson, C. E. et al.	PHYSICAL REVIEW D	2012
73	Precision tests of electron-muon universality with pions	ALEXIS ARMANDO AGUILAR AREVALO Numao T. Aoki M. et al.	Nuovo Cimento C-Colloquia And Communications In Physics	2012

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74	Measurement of the pion branching ratio at TRIUMF	ALEXIS ARMANDO AGUILAR AREVALO Malbrunot C. Aoki M. et al.	AIP Conference Proceedings	2012
75	An analytical treatment for three neutrino oscillations in the Earth	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ Supanitsky A.D.	NUCL PHYS B-PROC SUP	2012
76	Dual baseline search for muon antineutrino disappearance at $0.1 \text{ eV}(2) < \Delta m(2) < 100 \text{ eV}(2)$	ALEXIS ARMANDO AGUILAR AREVALO Cheng, G. Huelsnitz, W. et al.	PHYSICAL REVIEW D	2012
77	Magnus approximation in neutrino oscillations	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ Acero M.A.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2011
78	Earth matter effect on active-sterile neutrino oscillations	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ Acero M.A.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2011
79	The PIENU experiment at TRIUMF: A sensitive probe for new physics	ALEXIS ARMANDO AGUILAR AREVALO Malbrunot C. Aoki M. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2011
80	Measurement of neutrino-induced charged-current charged pion production cross sections on mineral oil at E-nu similar to 1 GeV	ALEXIS ARMANDO AGUILAR AREVALO Anderson, C. E. Bazarko, A. O. et al.	PHYSICAL REVIEW D	2011
81	Measurement of μ -induced charged-current neutral pion production cross sections on mineral oil at $E_\mu = 0.5-2.0 \text{ GeV}$	ALEXIS ARMANDO AGUILAR AREVALO Anderson, C. E. Bazarko, A. O. et al.	PHYSICAL REVIEW D	2011
82	Measurement of the neutrino component of an antineutrino beam observed by a nonmagnetized detector	ALEXIS ARMANDO AGUILAR AREVALO Anderson, C. E. Brice, S. J. et al.	PHYSICAL REVIEW D	2011
83	Measurement of $\nu(\mu)$ and $(\bar{\nu})$ induced neutral current single $\pi(0)$ production cross sections on mineral oil at E- ν similar to O (1 GeV)	ALEXIS ARMANDO AGUILAR AREVALO Anderson, C. E. Bazarko, A. O. et al.	PHYSICAL REVIEW D	2010
84	Search for core-collapse supernovae using the MiniBooNE neutrino detector	ALEXIS ARMANDO AGUILAR AREVALO Anderson, C. E. Bazarko, A. O. et al.	PHYSICAL REVIEW D	2010
85	First measurement of the muon neutrino charged current quasielastic double differential cross section	ALEXIS ARMANDO AGUILAR AREVALO Anderson, C. E. Bazarko, A. O. et al.	PHYSICAL REVIEW D	2010
86	Event Excess in the MiniBooNE Search for $(\nu)\overline{\nu}(\mu) \rightarrow (\nu)\overline{\nu}(e)$ Oscillations	ALEXIS ARMANDO AGUILAR AREVALO Anderson, C. E. Brice, S. J. et al.	PHYSICAL REVIEW LETTERS	2010

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87	Measurement of the neutrino neutral-current elastic differential cross section on mineral oil at E- ν similar to 1 GeV	ALEXIS ARMANDO AGUILAR AREVALO J. Cao Anderson, C. E. et al.	PHYSICAL REVIEW D	2010
88	Erratum: Measurement of the ratio of the μ charged-current single-pion production to quasielastic scattering with a 0.8 GeV neutrino beam on mineral oil (Physical Review Letters (2009) 103 (081801))	ALEXIS ARMANDO AGUILAR AREVALO Anderson C.E. Bazarko A.O. et al.	PHYSICAL REVIEW LETTERS	2010
89	Magnus approximation for neutrino oscillations with three flavors in matter	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2010
90	Study of a large NaI(Tl) crystal	ALEXIS ARMANDO AGUILAR AREVALO Aoki M. Blecher M. et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATO RS SPECTROMETER S DETECTORS AND ASSOCIATED EQUIPMENT	2010
91	Results from neutrino oscillations experiments	ALEXIS ARMANDO AGUILAR AREVALO	AIP Conference Proceedings	2010
92	The MiniBooNE detector	ALEXIS ARMANDO AGUILAR AREVALO Anderson C.E. Bartoszek L.M. et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATO RS SPECTROMETER S DETECTORS AND ASSOCIATED EQUIPMENT	2009

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93	Unexplained excess of electronlike events from a 1-GeV neutrino beam	ALEXIS ARMANDO AGUILAR AREVALO Anderson C.E. Bazarko A.O. et al.	PHYSICAL REVIEW LETTERS	2009
94	Neutrino flux prediction at MiniBooNE	ALEXIS ARMANDO AGUILAR AREVALO Anderson C.E. Bazarko A.O. et al.	PHYSICAL REVIEW D	2009
95	Measurement of ν_μ and ν_e events in an off-axis horn-focused neutrino beam	ALEXIS ARMANDO AGUILAR AREVALO Adamson P. Anderson C.E. et al.	PHYSICAL REVIEW LETTERS	2009
96	Measurement of the ratio of the ν_μ charged-current single-pion production to quasielastic scattering with a 0.8 GeV neutrino beam on mineral oil	ALEXIS ARMANDO AGUILAR AREVALO Anderson C.E. Bazarko A.O. et al.	PHYSICAL REVIEW LETTERS	2009
97	Physics at a future neutrino factory and super-beam facility	ALEXIS ARMANDO AGUILAR AREVALO Bandyopadhyay A. Choubey S. et al.	REPORTS ON PROGRESS IN PHYSICS	2009
98	Erratum: Leptonic CP violation studies at MiniBooNE in the (3+2) sterile neutrino oscillation hypothesis (Phys. Rev. D (2007) 75 (013011))	ALEXIS ARMANDO AGUILAR AREVALO Karagiorgi G. Conrad J.M. et al.	PHYSICAL REVIEW D	2009
99	High purity pion beam at TRIUMF	ALEXIS ARMANDO AGUILAR AREVALO Blecher M. Bryman D.A. et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATO RS SPECTROMETER S DETECTORS AND ASSOCIATED EQUIPMENT	2009
100	Search for Muon Neutrino and Antineutrino Disappearance in MiniBooNE	ALEXIS ARMANDO AGUILAR AREVALO Anderson, C. E. Bazarko, A. O. et al.	PHYSICAL REVIEW LETTERS	2009
101	Search for Electron Antineutrino Appearance at the Delta m^2 similar to 1 eV^2 Scale	ALEXIS ARMANDO AGUILAR AREVALO Anderson, C. E. Brice, S. J. et al.	PHYSICAL REVIEW LETTERS	2009
102	Results from miniboone	ALEXIS ARMANDO AGUILAR AREVALO	Frascati Physics Series	2008
103	Measurement of muon neutrino quasielastic scattering on carbon	ALEXIS ARMANDO AGUILAR AREVALO Bazarko A.O. Brice S.J. et al.	PHYSICAL REVIEW LETTERS	2008
104	First observation of coherent p_0 production in neutrino-nucleus interactions with $E_\nu < 2 \text{ GeV}$	ALEXIS ARMANDO AGUILAR AREVALO Anderson C.E. Bazarko A.O. et al.	PHYSICS LETTERS B	2008

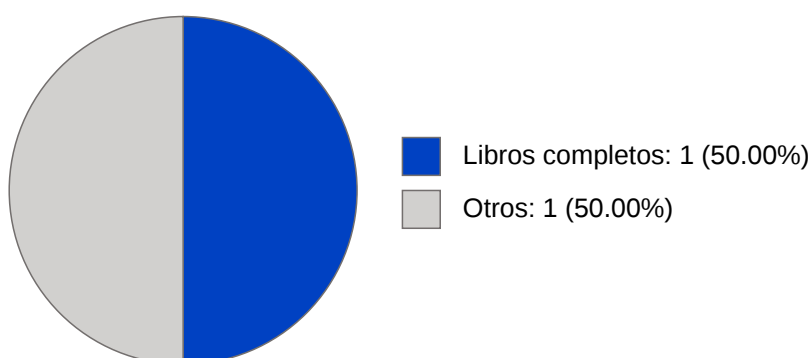
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105	Compatibility of high- $m^2_{\nu e}$ and ν_e neutrino oscillation searches	ALEXIS ARMANDO AGUILAR AREVALO Anderson C.E. Bazarko A.O. et al.	PHYSICAL REVIEW D	2008
106	Leptonic CP violation studies at MiniBooNE in the (3+2) sterile neutrino oscillation hypothesis	ALEXIS ARMANDO AGUILAR AREVALO Karagiorgi G. Conrad J.M. et al.	PHYSICAL REVIEW D	2007
107	Search for electron neutrino appearance at the $m^2_{\nu e}$ -1eV ² Scale	ALEXIS ARMANDO AGUILAR AREVALO Bazarko A.O. Brice S.J. et al.	PHYSICAL REVIEW LETTERS	2007
108	Magnus expansion and three-neutrino oscillations in matter	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ Cabral-Rosetti L.G.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2006
109	Neutrinos from the NuMI beamline in the MiniBooNE detector	ALEXIS ARMANDO AGUILAR AREVALO	AIP Conference Proceedings	2006
110	Active neutrino oscillations and the SNO neutral current measurement	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ	PHYSICAL REVIEW D	2002
111	Evidence for neutrino oscillations from the observation of ν_e appearance in a ν_μ beam	ALEXIS ARMANDO AGUILAR AREVALO Auerbach L.B. Burman R.L. et al.	PHYSICAL REVIEW D	2001

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN

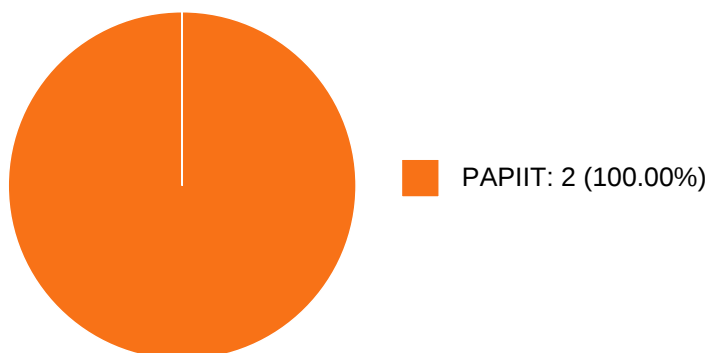


#	Título	Autores	Alcance	Año	ISBN
1	Workshop on Particle Physics and Astrophysics: Challenges and Opportunities in Mexico and Latin America	ALEXIS ARMANDO AGUILAR AREVALO ERIC VAZQUEZ JAUREGUI	Libro Completo	2015	9786070268960
2	The DAMIC-100 dark matter detection experiment with CCDs at SNOLAB	ALEXIS ARMANDO AGUILAR AREVALO JUAN CARLOS D'OLIVO SAEZ CAROLINA SALAZAR LEZAMA et al.	Conferencia e Paper	2014	9783935702591

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

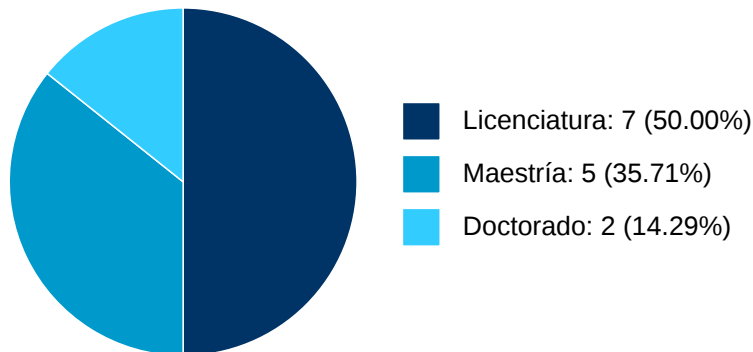


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Física de neutrinos por medio de la dispersión coherente con núcleos.	ALEXIS ARMANDO AGUILAR AREVALO	Recursos PAPIIT	01-01-2020	31-12-2022
2	Materia oscura y física de neutrinos en los experimentos CCM y CONNIE	ALEXIS ARMANDO AGUILAR AREVALO	Recursos PAPIIT	01-01-2023	31-12-2025

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Evidencia de dispersión dura dos a dos a partir de la sección eficaz de producción de jets	Tesis de Maestría	HERMES LEON VARGAS,	ALEXIS ARMANDO AGUILAR AREVALO, LIBERTAD BARRON PALOS, et al.	Instituto de Ciencias Nucleares, Instituto de Física,	2024
2	Physics with reactor neutrinos using charge-coupled devices and its synergy with dark sector searches	Tesis de Doctorado	ALEXIS ARMANDO AGUILAR AREVALO,	ERIC VAZQUEZ JAUREGUI, Cervantes Vergara, Brenda Áurea,	Instituto de Ciencias Nucleares, Instituto de Física,	2023
3	Medición de la intensidad vertical y la distribución angular de muones atmosféricos con un detector de centelleo	Tesis de Maestría	ALEXIS ARMANDO AGUILAR AREVALO,	Olmos Yáñez, Bryan,	Instituto de Ciencias Nucleares,	2021
4	El experimento coherente CAPTAIN-Mills (CCM) y la búsqueda del neutrino estéril	Tesis de Licenciatura	ALEXIS ARMANDO AGUILAR AREVALO,	Plata Salas, José,	Instituto de Ciencias Nucleares,	2021

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5	Búsquedas de física más allá del modelo estándar con sensores CCD de calidad científica y estudio de la eficiencia de ionización en silicio y germanio a bajas energías	Tesis de Doctorado	ALEXIS ARMANDO AGUILAR AREVALO,	Sarkis Mobarak, Youssef,	Instituto de Ciencias Nucleares,	2021
6	Simulation and characterization of a high purity germanium detector to measure low levels of radioactivity in materials	Tesis de Maestría	ALEXIS ARMANDO AGUILAR AREVALO,	Ortega Hernández, Carlos Iván,	Instituto de Ciencias Nucleares,	2020
7	Simulación por métodos de Monte Carlo de una cámara de burbujas centelleante con argón líquido para estudio de la dispersión elástica neutrino núcleo	Tesis de Maestría	ALEXIS ARMANDO AGUILAR AREVALO,	GENARO TOLEDO SANCHEZ, ERIC VAZQUEZ JAUREGUI, et al.	Instituto de Ciencias Nucleares, Instituto de Física,	2019
8	Simulación de la respuesta de una barra de plástico centelleador al flujo de muones cosmogénicos en ciudad universitaria	Tesis de Licenciatura	ALEXIS ARMANDO AGUILAR AREVALO,	Olmos Yáñez, Bryan,	Instituto de Ciencias Nucleares,	2018
9	Potencial de los dispositivos CCD para el estudio de oscilaciones a neutrinos estériles a través de la dispersión elástica coherente neutrino-núcleo	Tesis de Maestría	ALEXIS ARMANDO AGUILAR AREVALO,	Chávez Estrada, Marisol,	Instituto de Ciencias Nucleares,	2017
10	Búsqueda de desaparición de neutrinos del muón en el haz de neutrinos del booster de fermilab	Tesis de Licenciatura	ALEXIS ARMANDO AGUILAR AREVALO,	Méndez Méndez, Diana Patricia,	Instituto de Ciencias Nucleares,	2015
11	Dispositivos CCD para la búsqueda directa de materia oscura : el experimento DAMIC	Tesis de Licenciatura	ALEXIS ARMANDO AGUILAR AREVALO,	Moreno Granados, Guadalupe,	Instituto de Ciencias Nucleares,	2015
12	El flujo de antineutrinos de la Central Nucleoeléctrica de Laguna Verde y su detección	Tesis de Licenciatura	ALEXIS ARMANDO AGUILAR AREVALO,	Chávez Estrada, Marisol,	Instituto de Ciencias Nucleares,	2014

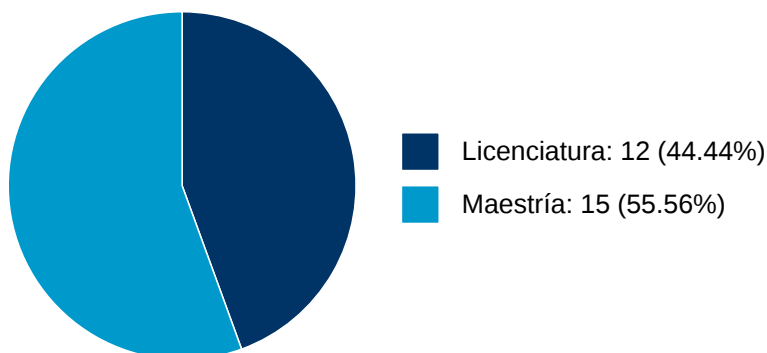
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13	Estimación de la sensibilidad de un detector basado en sensores ccd para la búsqueda directa de materia oscura en forma de wimp	Tesis de Licenciatura	ALEXIS ARMANDO AGUILAR AREVALO,	Sarkis Mobarak, Youssef,	Instituto de Ciencias Nucleares,	2014
14	Búsquedas de oscilaciones de neutrinos en el experimento miniboone: análisis de aparición de neutrinos y antineutrinos del electrón	Tesis de Licenciatura	ALEXIS ARMANDO AGUILAR AREVALO,	Icaza Astiz, Iker Loic de,	Instituto de Ciencias Nucleares,	2013

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	FISICA NUCLEAR Y SUBNUCLEAR	Facultad de Ciencias	23	2024-2
2	Maestría	INTRODUCCIÓN A LA FÍSICA DE NEUTRINOS (F. DE ALTAS ENERGÍAS, F. NUCLEAR, GRAVITACIÓN Y F. MAT.)	Instituto de Ciencias Nucleares	4	2023-2
3	Maestría	MÉTODOS DE LA FÍSICA EXPERIMENTAL DE ALTAS ENERGÍAS (ALTAS ENERGÍAS, NUCLEAR, GRAVITACIÓN Y MAT)	Instituto de Ciencias Nucleares	2	2023-1
4	Maestría	INTRODUCCIÓN A LA FÍSICA DE NEUTRINOS (F. DE ALTAS ENERGÍAS, F. NUCLEAR, GRAVITACIÓN Y F. MAT.)	Instituto de Ciencias Nucleares	1	2022-2
5	Maestría	INTRODUCCIÓN A LA FÍSICA DE NEUTRINOS (F. DE ALTAS ENERGÍAS, F. NUCLEAR, GRAVITACIÓN Y F. MAT.)	Instituto de Ciencias Nucleares	2	2021-2
6	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Ciencias Nucleares	1	2020-2
7	Maestría	MÉTODOS DE LA FÍSICA EXPERIMENTAL DE ALTAS ENEGÍAS (ALTAS ENERGÍAS, NUCLEAR, GRAVITACIÓN Y MAT.)	Instituto de Ciencias Nucleares	7	2020-2
8	Licenciatura	LABORATORIO DE MECANICA	Facultad de Ciencias	8	2020-1
9	Maestría	SEMINARIO DE INVESTIGACIÓN I	Instituto de Ciencias Nucleares	1	2020-1
10	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Ciencias Nucleares	1	2020-1

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11	Maestría	SEMINARIO DE INVESTIGACIÓN I	Instituto de Ciencias Nucleares	1	2019-2
12	Licenciatura	FISICA CONTEMPORANEA	Facultad de Ciencias	27	2019-1
13	Maestría	TEMAS SELECTOS,INTRODUCCION A LA FISICA DE NEUTRINOS	Instituto de Ciencias Nucleares	2	2018-2
14	Licenciatura	LABORATORIO DE MECANICA	Facultad de Ciencias	18	2018-2
15	Licenciatura	LABORATORIO DE MECANICA	Facultad de Ciencias	5	2018-1
16	Maestría	SEMINARIO DE INVESTIGACION II-394305	Instituto de Ciencias Nucleares	1	2017-1
17	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Ciencias Nucleares	1	2016-2
18	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Ciencias Nucleares	1	2016-2
19	Maestría	TEMAS SELECTOS	Instituto de Ciencias Nucleares	1	2016-2
20	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Ciencias Nucleares	1	2016-1
21	Licenciatura	LABORATORIO DE MECANICA	Facultad de Ciencias	13	2015-2
22	Licenciatura	FISICA CONTEMPORANEA	Facultad de Ciencias	25	2015-1
23	Licenciatura	LABORATORIO DE FISICA CONTEMPOR. II	Facultad de Ciencias	10	2013-2
24	Licenciatura	INTRODUC.FISICA PARTIC.ELEMEN.I	Facultad de Ciencias	7	2012-2
25	Licenciatura	INTRODUC.FISICA PARTIC.ELEMEN.I	Facultad de Ciencias	6	2011-2
26	Licenciatura	INTRODUC.FISICA PARTIC.ELEMEN.I	Facultad de Ciencias	14	2010-2
27	Licenciatura	MECANICA VECTORIAL	Facultad de Ciencias	22	2010-1



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



ALEXIS ARMANDO AGUILAR AREVALO

PATENTES

No se encuentran registros en la base de datos de patentes asociados a:

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FUENTES DE INFORMACIÓN

Internos

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2025
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2025
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2025
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

Externos

#	Información	Fuente	Sistema	Periodo
8	Documentos Indexados	Elsevier	Scopus	2008-2025
9	Documentos Indexados	Thomson Reuters	WoS	2008-2025
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2025
11	Patentes	IMPI	SIGA	2008-2024