

Minas Marat Sukiasyan

Research Institute of Physics

Laboratory of Ultrafast Optics and Photonics

Senior researcher

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Education

Institution	CANDLE SRI
Faculty	Physics
Date	2016 - 2019
Degree name	PhD student

Institution	Yerevan State University
Faculty	Physics
Date	2014 - 2016
Degree name	Masters

Institution	Yerevan State University
Faculty	Physics
Date	2010 - 2014
Degree name	Bachelor

Scientific Rank/degree

Institution	CANDLE SRI
Date	2019
Degree name	Candidate
Specialty	Physico-mathematical sciences
Scientific Supervisor	Levon Mouradian
Research Topic	Solitonic and resembling processes for ultrashort laser pulse's characteristic and spectral self-compression

Language skills

Հայերեն English

Work experience

Institution	CANDLE
Period of time	2016 till now

Rank/degree	researcher
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Institution	YSU
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Period of time	2015 till now
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Rank/degree	researcher
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Publications

Article

Observation of coherent Cherenkov radiation of electron bunches from a partially dielectric loaded waveguide

L.Sh. Grigoryan, A.P. Potylitsyn, M.V. Shevelev, A.V. Vukolov, P.V. Karataev, S.B. Dabagov, A.S. Vardanyan, A.S. Yeremyan, M.M. Sukiasyan, A.A. Saharian, V.R. Kocharyan, T.R. Muradyan, M.L. Grigoryan, D.E. Baghdasaryan, V.Kh. Kotanjyan, A.V. Sargsyan, H.P. Harutyunyan, H.F. Khachatryan, A.R. Mnatsakanyan, A.H. Mkrtchyan

Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment
2024 169177

Article

Generation of a New Type of Similaritons in Optical Fibers [Генерация нового типа симиляритонов в оптических волокнах]

A. Kutuzyan, V. Avetisyan, M. Sukiasyan

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024
36-40

Article

Influence of Noise Distortions of the Spectral Phase on the Profile of an Ultrashort Pulse [Влияние шумовых искажений спектральной фазы на профиль ультракороткого импульса]

V. Avetisyan, M. Sukiasyan, A. Avetisyan, A. Kirakosyan, A. Kutuzyan

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024
149-153

Article

Self-Formation of Temporal Dark Solitons in a Single-Mode Optical Fiber [Самоформирование временных темных солитонов в одномодовом оптическом волокне]

A. Kutuzyan, M. Sukiasyan, Ar. Kirakosyan, V. Avetisyan

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024
238-243

Article

APPLICATION OF LOW-ENERGY, TUNABLE-DELAY ULTRASHORT ELECTRON BUNCH PAIRS FOR IRRADIATION EXPERIMENTS

A. Yeremyan, H. Davtyan, A. Grigoryan, B. Grigoryan, M. Ivanyan, V. Khachatryan, N. Martirosyan, M. Sargsyan, M. Sukiasyan, A. Vardanyan

Journals of Accelerator Conferences Website 2023 4142-4145

Article

Spectral Self-Compression of Chirp-Free Pulses in Anomalous Dispersive Optical Fibers

Minas Sukiasyan, Vardan Avetisyan, Aghavni Kutuzyan

Photonics 2023 1207

Article

Formation of a new type of self-similar pulses in optical fibers with anomalous dispersion

Aghavni Kutuzyan, Vardan Avetisyan, Meri Kalashyan, Minas Sukiasyan

Optics InfoBase Conference Papers (Frontiers in Optics) 2022 185766

Article

Measurement of the ultrashort pulse spectral phase based on dispersive Fourier transformation

MINAS SUKIASYAN, NAREK KARAPETYAN, HRACH TONEYAN, AGHAVNI KUTUZYAN, LEVON MOURADIAN

Applied Optics 2019 2817-2822

Article

Similaritonic Method on Ultrashort Pulse Duration Measurement by Oscilloscope

M.M. Sukiasyan, N. P. Karapetyan, H.A. Toneyan, A.A. Kutuzyan, L.Kh. Mouradian

Armenian Journal of Physics 2019 107-112

Article

Spectral Self-Compression of Partially Coherent Pulses

M.M. Sukiasyan

Armenian Journal of Physics 2019 113-118

Article

ЧИСЛЕННОЕ ИССЛЕДОВАНИЕ ПРОЦЕССА ФОРМИРОВАНИЯ СПЕКТРОНА: ФАЗОВЫЕ ОСОБЕННОСТИ

Н. КАРАПЕТЯН, Г. ТОНЕЯН, А. КУТУЗЯН, М. СУКИАСЯН, В. АВЕТИСЯН, Д. ГУЛКАНЯН, К. АПРЕСЯН, Л. МУРАДЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2018 173-180

Article

Spectral Characteristics of Nonlinear-Dispersive Similariton Generated in Single-Mode Fiber without Gain

H. Toneyan, K. Manoukian, M. Sukiasyan, A. Kutuzyan, L. Mouradian

Armenian Journal of Physics 2017 192-198

Article

Designing the femtosecond optical oscilloscope

H. Toneyan, M. Sukiasyan, A. Zeytunyan, V. Tsakanov, L. Mouradian

Journal of Physics: Conference Series 2016 6

<http://iopscience.iop.org/journal/1742-6596>

Conference

Solitonic Self-Spectral Compression of Noisy Supercontinuum Radiation

Hrach Toneyan, Minas Sukiasyan, Levon Mouradian, Aghavni Kutuzyan, Vardan Avetisyan,

Arsham Eremyan

Conference

Simple Diagnostics of Femtosecond Pulses by the Use of Nanosecond Oscilloscope

K.Manukyan, M.Sukiasyan, H.Toneyan, A. Zeytunyan, L. Mouradian

Conference

Experimental Demonstration of Self-Spectral Compression of Supercontinuum's Fraction by 4.1x

V. Avetisyan, M. Sukiasyan, H. Toneyan, A. Kutuzyan, A. Yeremyan, L. Mouradian

Conference

Solitonic Spectral Self-Compression of Regular and Randomly Modulated Pulses

M.Sukiasyan, H.Toneyan, A.Kutuzyan, V.Tsakanov, L. Mouradian

Conference

4.1x Solitonic Self-Spectral Compression of Supercontinuum's Fraction

Minas Sukiasyan, Vardan Avetisyan, Hrach Toneyan, Aghavni Kutuzyan, Arsham Yeremyan,

Levon Kh. Mouradian

Conference

Solitonic Self-Spectral Compression of Supercontinuum Fraction

Vardan Avetisyan, Minas Sukiasyan, Levon Kh. Mouradian, Arsham Yeremyan, Aghavni Kutuzyan,

Hrach Toneyan

Conference

EXPERIMENTAL DEMONSTRATION OF SPECTRAL SELF-COMPRESSION OF FRACTION OF SUPERCONTINUUM RADIATION

Hrach Toneyan, Minas Sukiasyan, Vardan Avetisyan, Levon Kh. Mouradian

Conference

NUMERICAL STUDY OF FEMTOSECOND SIGNAL SPECTRAL SELF-COMPRESSION

Minas Sukiasyan, Hrach Toneyan, Vardan Avetisyan, Aghavni Kutuzyan, Levon Kh. Mouradian

Conference

SIMILARITON BASED TECHNIQUE FOR DETERMINATION OF FEMTOSECOND PULSE DURATION

Karapet Manukyan, Hrach Toneyan, Minas Sukiasyan, Aghavni Kutuzyan, Levon Kh. Mouradian

Conference

Simple Similaritonic Technique for Measurement of the Bell-Shaped, Two-Peak and Compressed Pulse Duration in Femtosecond Domain

K. Manukyan, M. Sukiasyan, H. Toneyan, L. Mouradian

Conference

Solitonic Self-Spectral Compression of Noisy Supercontinuum Radiation

Hrach Toneyan, Minas Sukiasyan, Vardan Avetisyan, Aghavni Kutuzyan, Arsham Yeremyan,

Levon Kh. Mouradian

Conference

Solitonic and Resembling Processes for Ultrafast Laser Pulse Registration and Spectral Self-Compression

Conference

Spectron and Dispersive Fourier Transformation: Phase Aspect

N. Karapetyan, M. Sukiasyan, H. Toneyan, A. Kutuzyan, L. Kh. Mouradian

Conference

Spectral phase measurement based on spectron shaping

N. Karapetyan, M. Sukiasyan, H. Toneyan, A. Kutuzyan, L. Mouradian

Conference

Determination of the Spectral Phase of Femtosecond Pulses based on Frequency-to-Time mapping

Minas Sukiasyan, Aghavni Kutuzyan

Patent

Լազերային գերկարճ իմպուլսների սպեկտրալ փուլի որոշման եղանակ

Աղավնի Կուտուզյան, Մինաս Սուքիասյան, Վարդան Ավետիսյան, Մերի Քալաշյան

Conference

The influence of spectral phase noise in the laser pulse reconstruction

Anna Avetisyan, Minas Sukiasyan, Arthur Kirakosyan, Aghavni Kutuzyan

Conference

Application of picosecond-delay laser pulse pairs for materials processing

A.S. Yeremyan, M.L. Sargsyan, M.M. Sukiasyan, N.W. Martirosyan

Conference

Noise sensitivity in the spectral phase measurement technique based on dispersive Fourier transform

M. Sukiasyan, A. Avetisyan, A. Kutuzyan
