



Fisika



LPPM



Volume 6 Issue 3, December 2021

SPEKTRA

Jurnal Fisika dan Aplikasinya

DOI: doi.org/10.21009/SPEKTRA

e-ISSN : 2541-3392

SPEKTRA: Jurnal Fisika dan Aplikasinya

Volume 6 Issue 3, December 2021

DOI: doi.org/10.21009/SPEKTRA.06300

Abstracting and Indexing:

			
			
			
			

SPEKTRA: Jurnal Fisika dan Aplikasinya

Volume 6 Issue 3, December 2021

SPECTROSCOPIC AND RADIATIVE PROPERTIES OF SM³⁺ DOPED SODIUM-LEAD-ZINC-LITHIUM-BORATE GLASSES

Donna Rajagukguk, Juniastel Rajagukguk, Pintor Simamora, Rappel Situmorang, Chayani Sarumaha, Widyaningrum Indrasari

DETECTION AND MONITORING SYSTEM ON THE PACKAGE RECEIVING BOX

Duta Widhya Sasmojo, Wisnu Broto, Doni Chesa Renaldi

WORKING ANALYSIS OF SPACE TIME TRELIS CODE ON WIFI MIMO(2X2) SYSTEM OFDM

Wisnu Broto, Noor Suryaningsih, Adhi Mahendra

THE RELATIONSHIP BETWEEN TIME AND WATER CONTENT OF FISH DRIED USING SOLAR PANEL-BASED DRYERS

Sutrisno, Rindang Wahyu Puspitasari, Anang Pamungkas, Daeng Achmad Suaidi

LINEAR GENERATOR PROTOTYPE WITH VERTICAL CONFIGURATION OF SEA WAVE POWER PLANT

Ane Prasetyowati, Wisnu Broto, Noor Suryaningsih

Editor in Chief

Dr. Widyaningrum Indrasari (Universitas Negeri Jakarta)

Editors

Prof. Yusaku Fujii (Gunma University, Japan)

Prof. Madya Dr. Md. Nizam Abd Rahman (Universiti Teknikal Malaysia Melaka, Malaysia)

Prof. Dr. Erfan Handoko (Universitas Negeri Jakarta, Indonesia)

Prof. Dr. Mangasi A Marpaung (Universitas Negeri Jakarta, Indonesia)

Dr. Iwan Sugihartono, M.Si. (Universitas Negeri Jakarta, Indonesia)

Dr. Irzaman, M.Si. (Institut Pertanian Bogor, Indonesia)

Dr. Ing. Rahmondia Nanda Setiadi, M.Si. (Universitas Riau, Indonesia)

Dr. Masturi (Universitas Negeri Semarang, Indonesia)

Dr. Rahadi Wirawan, M.Si. (Universitas Mataram, Indonesia)

Dr. Lilik Hasanah, M.Si. (Universitas Pendidikan Indonesia, Indonesia)

Dr. Mutia Delina, M.Si. (Universitas Negeri Jakarta, Indonesia)

Dr. Andhy Setiawan, M.Si. (Universitas Pendidikan Indonesia, Indonesia)

Dr. Teguh Budi Prayitno, M.Si. (Universitas Negeri Jakarta, Indonesia)

Editorial Office

Program Studi Fisika Fakultas MIPA

Kampus A Universitas Negeri Jakarta

Gedung K.H. Hasyim Asyari Lt.10

Jalan Rawamangun Muka No.1

Rawamangun-Pulogadung Jakarta Timur, 13220

Reviewers (Mitra Bebestari)

Prof. Hsiang-Lin Liu (National Taiwan Normal University)
Prof. Dr. Yayat Ruhiat (Universitas Sultan Ageng Tirtayasa)
Prof. Md. Rahim Sahar (Universiti Teknologi Malaysia)
Dr. Ezza Syuhada Sazali (Universiti Teknologi Malaysia)
Dr. Ramli, M.Si. (Universitas Negeri Padang)
Dr. Yulkifli, M.Si. (Universitas Negeri Padang)
Dr. Fiber Monado (Universitas Sriwijaya)
Dr. Idha Royani, M.Si. (Universitas Sriwijaya)
Dr. Zaroh Irayani (Universitas Jenderal Sudirman)
Dr. Siti Zulaikah, M.Si. (Universitas Negeri Malang)
Dr. Sparisoma Viridi (Institut Teknologi Bandung)
Dr. Triati Dewi Kencana Wungu (Institut Teknologi Bandung)
Dr. Trismidianto, M.Si. (Pusat Sains dan Teknologi Atmosfer LAPAN)
Dr. Lusi Safriani, M.Si. (Universitas Padjadjaran)
Dr. Eleonora Agustine, M.Si. (Universitas Padjadjaran)
Dr. Agus Supriyanto, M.Si. (Universitas Negeri Sebelas Maret)
Dr. Syuhada (Lembaga Ilmu Pengetahuan Indonesia)
Rahmat Firman Septiyanto, M.Si. (Universitas Sultan Ageng Tirtayasa)
Ganesha Antarnusa, M.Sc. (Universitas Sultan Ageng Tirtayasa)
Prihatin Oktivasari, M.Si. (Politeknik Negeri Jakarta)
Mera Kartika Delimayanti, M.T. (Politeknik Negeri Jakarta)
Yanurita Dwi Hapsari, M.Sc. (Institut Teknologi Sepuluh Nopember)

EDITORIAL FOREWORD

SPEKTRA: Jurnal Fisika dan Aplikasinya is dedicated to all physics practitioners. The coverage of SPEKTRA includes: Instrumentation and Computational Physics, Material Physics, Medical Physics and Biophysics, Astrophysics, Theoretical Physics, Particle and Nuclear Physics, Environment Physics, Renewable Energy, and other fields related to the application of physics.

SPEKTRA Volume 6 issue 3 contains 5 papers: 1) Spectroscopic and Radiative Properties Of SM^{3+} Doped Sodium-Lead-Zinc-Lithium-Borate Glasses; 2) Detection and Monitoring System on The Package Receiving Box; 3) Working Analysis of Space Time Trellis Code on Wifi Mimo(2x2) System OFDM; 4) The Relationship Between Time and Water Content of Fish Dried Using Solar Panel-Based Dryers; and 5) Linear Generator Prototype with Vertical Configuration of Sea Wave Power Plant.

Hopefully, SPEKTRA can be a reference for readers and researchers in developing physics and its application.

Jakarta, 30 December 2021

Editor-in-Chief,

Widyaningrum Indrasari

CONTENTS

TITLE AND AUTHOR(S)	PAGES
SPECTROSCOPIC AND RADIATIVE PROPERTIES OF SM³⁺ DOPED SODIUM-LEAD-ZINC-LITHIUM-BORATE GLASSES <i>Donna Rajagukguk, Juniastel Rajagukguk, Pintor Simamora, Rappel Situmorang, Chayani Sarumaha, Widyaningrum Indrasari</i>	137 - 150
DETECTION AND MONITORING SYSTEM ON THE PACKAGE RECEIVING BOX <i>Duta Widhya Sasmojo, Wisnu Broto, Doni Chesa Renaldi</i>	151 - 158
WORKING ANALYSIS OF SPACE TIME TRELLIS CODE ON WIFI MIMO(2X2) SYSTEM OFDM <i>Wisnu Broto, Noor Suryaningsih, Adhi Mahendra</i>	159 - 174
THE RELATIONSHIP BETWEEN TIME AND WATER CONTENT OF FISH DRIED USING SOLAR PANEL-BASED DRYERS <i>Sutrisno, Rindang Wahyu Puspitasari, Anang Pamungkas, Daeng Achmad Suaidi</i>	175 - 184
LINEAR GENERATOR PROTOTYPE WITH VERTICAL CONFIGURATION OF SEA WAVE POWER PLANT <i>Ane Prasetyowati, Wisnu Broto, Noor Suryaningsih</i>	185 - 200

