



Fisika



LPPM



Volume 8 Issue 1, April 2023

SPEKTRA

Jurnal Fisika dan Aplikasinya

DOI: doi.org/10.21009/SPEKTRA

e-ISSN : 2541-3392

SPEKTRA: Jurnal Fisika dan Aplikasinya

Volume 8 Issue 1, April 2023

DOI: doi.org/10.21009/SPEKTRA.08100

Abstracting and Indexing:

			
			
			
			

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COMBINED METHOD OF BULK MATERIAL SHIELDING EVALUATION FOR 200 MEV HIGH ENERGY NEUTRON SOURCE USING PHITS MODELLING AND PARTIAL DENSITY*Fitrotun Aliyah, Azhar Abdul Rahman, Yasmin Md Radzi, Imam Kambali***CHARACTERIZATION OF ENERGY BAND GAP THIN FILM BaTiO_3 – $\text{BaZr}_{0.5}\text{Ti}_{0.5}\text{O}_3$ USING DIFFUSION REFLECTANCE SPECTROSCOPY (DRS) METHOD***Rahmi Dewi, Wesly Arianto Manalu, Brian Noval Asrinaldo, Ari Sulisty Rini, Yanuar Yanuar***EXPLORING THE INTERCONNECTEDNESS OF COSMOLOGICAL PARAMETERS AND OBSERVATIONS: INSIGHTS INTO THE PROPERTIES AND EVOLUTION OF THE UNIVERSE***Budiman Nasution, Ruben Cornelius Siagian, Arip Nurahman, Lulut Alfaris***A COMBINED METHOD OF 1D AND 2D RESISTIVITY FOR GROUNDWATER LAYER ESTIMATION AT A FARMING AREA IN REJOMULYO VILLAGE***Risky Martin Antosia, Muhammad Ramdan***HIGH STRENGTH MANGO LEAF WASTE/POLYURETHANE COMPOSITE REINFORCEMENT USING QUARTZ MATERIAL***Masturi Masturi, Dante Alighiri, Fadhillah Choirunnisa, Kurnia Galuh Candra Kirana***THE CORRELATION BETWEEN ELECTRIC CURRENT PRODUCED AND THE LIGHT SOURCE DISTANCE IN PHOTOELECTRIC EFFECT EXPERIMENTS***Upik Rahma Fitri, Esmar Budi, Hadi Nasbey, Mira Ziveria, Intan Muhara*

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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 8 issue 1 contains six papers: 1) Combined Method of Bulk Material Shielding Evaluation For 200 MeV High Energy Neutron Source Using Phits Modelling and Partial Density, 2) Characterization of Energy Band Gap Thin Film $\text{BaTiO}_3 - \text{BaZr}_{0.5}\text{Ti}_{0.5}\text{O}_3$ Using Difusion Reflectance Spectroscopy (DRS) Method, 3) Exploring The Interconnectedness of Cosmological Parameters and Observations: Insights Into The Properties and Evolution of The Universe, 4) A Combined Method of 1D And 2D Resistivity for Groundwater Layer Estimation at A Farming Area in Rejomulyo Village, 5) High Strength Mango Leaf Waste/Polyurethane Composite Reinforcement Using Quartz Material, and 6) The Correlation Between Electric Current Produced and The Light Source Distance in Photoelectric Effect Experiments.

The articles in this issue from 2 countries: Indonesia and Malaysia. We are grateful for all the contributions of the authors. We also appreciate the professional reviewers who are an essential part of this issue.

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

Jakarta, 30 April 2023

Editor-in-Chief,

Widyaningrum Indrasari

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