RESEARCH PAPER READING SEMINAR

IN COMMEMORATION OF

THE 22th ANNIVERSARY OF

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ABSTRACT VOLUME

100	Removal of Lead Ion from Aqueous Solution by Using Bamboo Char as Adsorbent	100
101	Determination of Phytochemical Constituents, Antimicrobial Activities and Elemental contents From the Leaves of Tridax Procumbens Linn. (Tapin Shwe Hti)	101
102	A Comparative Study of Extration and identification of Caffeine Contents from Coffee Arabica L. (Coffee bean) and Some Commercial coffee Powder	102
103	A Comparative Study of Phytochemical Constituents, Elemental Contents and Quantitative determination of total phenols by Spectrophotometric method from hylocereus polyrhizus (Red Dragon Fruit) and hylocereus undatus (White Dragon Fruit)	103
104	Comparative determination of Phytochemical Constituents and Mineral Contents in the Leaves and fruits of Merindacitrifolia L. (Ye yo)	104
105	Identification and Characterization of bioactive constituents from bark of Acacia Pennata L. Willd (Suu-Yit)	105
106	Determination of the chemical constituents of essential oil extracted from the fruits peal of Citrus maxima (Burm.) Merr.	106
107	Extraction of natural food colourand from flowers of butterfly pea (Clitoria ternatea L.)	107
108	Study on Current-Voltage Characteristics of Zn0.95Ni0.05O/p-Si Thin Film	108
109	Calculation and Visualization of a Fluid Flow	109
110	Binding Energy LL5H of System with L - L - t to X- pt Coupled Channels	110
111	Calculation of Half-lives of Some Event-even Alpha Emitters Using WKB Method	111
112	Design and Construction of Shan Numeric Character Display Emb- edded System and Application	112
113	Coupled Channel Calculation of Three-Body t-t-L Model	113
114	Simple Modeling and Simulation of Photovoltaic Panels Using Matlab/Script	114
115	Calculations of Gravitational Force between the Blackhole and Light Particle	115
116	Energy levels of Neutron Single-Particle States in 209^Pb	116
117	Interaction Energy for Hydrogen Molecular System	117
118	Comparison for Charge Density Distributions of 168O nucleus	118
119	Effect of Annealing and Solvent on Optical Absorption of p3HT and MEH-PPV Polymer Films	119
120	Lambda Binding Energy of 11^B Hypernucleus	120
121	Markovian Brith-Death Process	121
122	Physical Similarity and Dimensional Analysis	122
123	Number of minimum degree vertices in Spanning 3-Trees in Their Square Graphs	123
124	Method of Characteristics for Initial Value Problem	124
125	Globally Proper Efficiency of Set-Valued Optimization Problems in Linear Spaces	125
126	Calculation of n-steps Transition Probabilities by Matlab Programming	126
127	Interpolation for Functions at Unequal Intervals	127
128	A way to Solve Differential Equation	128
129	So this is a Three-Space Property	129
130	How to Develop the Real Number System	130

RESEARCH PAPER READING SEMINAR IN COMMEMORATION OF THE 22nd ANNIVERSARY OF MONYWA UNIVERSITY

ENERGY LEVELS OF NEUTRON SINGLE-PARTICLE STATES IN $^{209}_{\Lambda}Pb$

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Abstract

We calculated numerically single particle energy levels of a neutron moving in a potential well for $^{209}_{\Lambda}Pb$ by using Numerove method. Firstly, the outwards and inwards eigenfunctions are obtained from the recursive formulas. We solved radial part of Schrodinger equation with harmonic oscillator potential and Woods saxon potential to obtain single particle energy states of a neutron in $^{209}_{\Lambda}Pb$. The sub energy levels are obtained by using Woods-saxon potential. It is observed that the energy levels depend on spin orbit potential.