



# Siam Physics Congress 2022 (SPC2022)

## Thursday, June 23, 2022

### S3 Accelerators and Synchrotron Radiations: Oral presentation 4 - AMBER (10:45 AM - 12:00 PM)

time	[id] title	presenter
10:45 AM	[197] Can Fusion Energy Contribute in Achieving Carbon Neutrality in Thailand?	Dr DANGTIP, Somsak
11:15 AM	[112] Three-Dimensional Simulation of the Supersonic Molecular Beam Injection in Thailand Tokamak 1	Mr RONGPUIT, Kitti
11:30 AM	[80] On the analysis of the fast-ion motion in Thailand Tokamak-1 using NUBEAM and LORBIT codes	PAENTHONG, Worathat
11:45 AM	[116] 3D Range-Modulators: Near field simulations with FLUKA and comparison with film measurements	CHARUCHINDA, Warisara

### S3 Accelerators and Synchrotron Radiations: Oral presentation 11 - AMBER (3:15 PM - 4:00 PM)

time	[id] title	presenter
3:15 PM	[91] The Effect of Magnetic Topology of Polywell Fusion Devices on The Electron Confinement Time	Mr BOONCHOO, Rattacha
3:30 PM	[92] Investigation of an edge transport barrier formation in fusion tokamak using the BOUT++ framework	AUNGCHAROEN, Thiti
3:45 PM	[104] The study of fusion neutrons captured in Tritium breeding blanket of Tokamak wall using GEANT4	KHEAWYOI, Paphatchaya

## Friday, June 24, 2022

### S3 Accelerators and Synchrotron Radiations: Oral presentation 4 - AMBER (9:00 AM - 10:15 AM)

time	[id] title	presenter
9:00 AM	[334] Intense Helicon Plasma in the Thailand Linear Device	Prof. NISOA, Mudtorlep
9:30 AM	[302] Design of Dipole Magnets for Siam Photon Source II	SUNWONG, Prapaiwan
9:45 AM	[54] DESIGNING AND SIMULATION OF A LOW-ENERGY SINGLE ION IRRADIATION SYSTEM FOR BIOLOGICAL SAMPLE BOMBARDMENT	Dr THOPAN, Prutchayawoot
10:00 AM	[354] Specific activities of natural and anthropogenic radionuclides in organic Sungyod rice samples collected from Don Pradu sub-district in Pak Phayun district in Phatthalung province, Thailand	Dr KESSARATI KOON, Prasong

### S3 Accelerators and Synchrotron Radiations: Oral presentation 4 - AMBER (11:30 AM - 12:00 PM)

time	[id] title	presenter
11:30 AM	[301] G4beamline simulation for rotating telescope at SLRI BTF	KAEWJAI, Jetnipit
11:45 AM	[327] Fabrication and development of neutron shielding materials based on natural rubber and boron carbide	Mr SAENPOOWA, Jittinun

### S3 Accelerators and Synchrotron Radiations: Oral presentation 11 - AMBER (1:00 PM - 4:30 PM)

time	[id] title	presenter
1:00 PM	[366] SPS-II: A 4th Generation Synchrotron Light Source in Southeast Asia	KLYSUBUN, Prapong
1:30 PM	[364] Radioisotope Application for Plant and Process Inspection in Petroleum and Petrochemical	SAENGCHANTR, Dhanaj
2:00 PM	[121] Experimental study of radiolytic oxygen removal in irradiated water	Ms KAROON, Pharewa
2:15 PM	[105] ELMS Dynamics Simulations Based on Bifurcation Approach	Mr KLANURAK, Danis
2:30 PM	[344] A feasibility study of using BNCT to treat Cholangiocarcinoma (CCA)	MALAD, Yuwadee