

Session Program

24-26 May 2017



Siam Physics Congress 2017

A4: Plasma and Nuclear Fusion

Rayong Marriott Resort & Spa

<http://www.marriott.com/hotels/travel/bkkrr-rayong-marriott-resort-and-spa/> Rayong, Thailand

Wednesday 24 May

16:00

A4: Plasma and Nuclear Fusion

Session | **Location:** Ballroom 3 | **Conveners:** Dr Nopparit Somboonkittichai, Dr Peera Pongkitiwanchakul

16:00–16:15 **A Characterization of Portable HF Air Plasma Jet**

Speaker

Phuthidhorn Thana

16:15–16:30 **Effects of the temperature on the reconnection properties**

Speaker

Dr Kittipat Malakit

16:30–16:45 **Development of TPF-1 Plasma Focus for Education**

Speaker

Dr Roppon Picha

16:45–17:00

Performance Optimization of ITER and DEMO Plasmas in the Presence of Internal Transport Barrier

Speaker

Dr Boonyarit Chatthong

17:00–17:15 **Predictive Simulations of Pellet Injection in ITER and DEMOs**

Speaker

Mr Rungsin Kongkerd

17:15–17:30

Investigation of plasma performance and formation of transport barriers based on bifurcation concept

Speaker

Ms Jintana Pakeewanich

17:30–17:45

Calculate Argon Plasma Density Generate by UNU/ICTP Plasma Focus Device

Speaker

Mr Dusit Ngamrunroj

17:45–18:00

Energy transfer between particles & electromagnetic fields in laser-produced plasma simulations.

Speaker

Peera Pongkitiwanchakul

18:00–18:15 **Understanding roles of neutrons in advanced fusion reactors**

Speaker

Dr Dangtip Somsak

18:15