



Research Track

Research Interest: Nuclear Physics, Fusion, Plasma
Career H-Index: 16, Journal Publications > 50 papers
88 citations as 1st author & 114 as co-author
>35 graduate students under supervision



Administration

Manager, CoE for Advanced Nuclear Technology
Vice Dean, Faculty of Science, Mahidol University
Assistant Dean Faculty of Science, Mahidol University
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Affiliation

BE2562 Thailand Institute of Nuclear Technology
BE2546 Mahidol University
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Education

Ph.D. (Applied Neutron Research) Uppsala Univ. Sweden BE2543
M.Sc. (Physics) Chiang Mai Univ., Thailand, BE2537
B.Sc. (Physics) Chiang Mai Univ., Thailand, BE2535



DPST Alumni

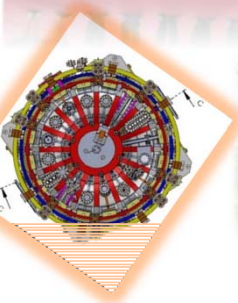
Class 02 at B.Sc. BE 2531

Assoc. Prof. Somsak Dangtip, Ph.D.

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Thailand Institute of Nuclear Technology (Public Organization) TINT



Initiative and Progress of Thailand Tokamak 1 Facility



ABSTRACT

A facility for the first tokamak of Thailand is currently under taken. The former HT-6M with its core components; i.e., toroidal magnet, central solenoid, and supporting structure, was donated from ASIPP to TINT. Major upgrades on power supply, vacuum system, diagnostic system, data acquisition system are needed. Once the tokamak passes its recommissioning at ASIPP, it will be shipped to install at TINT, Ongkharak, Thailand and rebranded to Thailand Tokamak 1 (TT-1). In parallel, a new building is being constructed at TINT, Ongkharak, Thailand. The TT-1 tokamak is expected to operate with plasma current of up to 150 kA, magnetic field of 1.5 T to the maximum plasma flat top of 100 ms in year 2022. Besides, this ongoing infrastructure, Thailand Institute of Nuclear Technology (TINT) in collaboration with CPaF and international partners focus on research and development in the plasma and fusion related technologies and applications such as advanced materials, superconducting magnets, plasma applications, etc. Future generation engagement is also our focus to enlarge pool of talents for more advanced tokamak. There are quite a few channels to participate in the facility; taking part in experiment, joining schools, attending classes and so on. Some important milestone and progress of the facility will be presented in this talk.

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