US-Japan Workshop on Compact Tori 2017
Improved Confinement and Novel Applications of Compact Tori (CT2017)
November 7 - 9, 2017
Hotel Yokohama Camelot Japan, Yokohama, Japan

November 7

9:00  Registration / Opening remarks / Announcements

Session 1 :  Chair: Tomohiko Asai
9:30  STEINHAUER, Loren  Tri Alpha Energy
Coupled transport in field-reversed configurations
10:00  LEE, Kiyong  National Fusion Research Institute
1-D equilibrium (radial) profile to simulate a hollow current profile in an FRC plasma by using symmetry
10:30  Break

Session 2 :  Chair: Michiaki Inomoto
11:00  TAKAHASHI, Toshiki  Gunma University
Simulation of a field-reversed configuration plasma controlled by external magnetic field
11:30  INOMOTO, Michiaki  The University of Tokyo
Center-solenoid free start-up of spherical tokamak plasma in UTST
12:00-14:00  Lunch

Session 3 :  Chair: Toshiki Takahashi
14:00  GOTA, Hiroshi  Tri Alpha Energy
Initial Results of C-2W Field-Reversed Configuration Experiment
14:30  ROCHE, Thomas  Tri Alpha Energy
Magnetic diagnostic suite and initial data from translating CTs in C-2W
15:00  MATSUMOTO, Tadafumi  Tri Alpha Energy
Behavior of CTs injected into C-2U FRC
15:30  Break
16:00-17:45  Poster session I

November 8

Session 4 :  Chair: Loren Steinhauer
9:00  KANKI, Takashi  Japan Coast Guard Academy
Development of high accuracy and high speed code for flowing two-fluid equilibrium
9:30  KAUR, Manjit  Swarthmore College
Magnetothermodynamics: Measuring the equations of state in a relaxed MHD plasma
10:00  MORGAN, Kyle  University of Washington
Recent results of the HIT-SI experiment
10:30  Break
Session 5 :

11:00  FROESE, Aaron  General Fusion  
Progress towards liquid metal plasma compression in General Fusion

11:30  HIRANO, Yoichi  AIST (Nihon University)  
A design of DT fusion reactor in the field-reversed configuration by using normal conductive coils

12:00-14:00  Lunch

Session 6 :

14:00  NAGATA, Masayoshi  University of Hyogo  
Studies of two-fluid relaxation and plasmoid reconnection in CHI-driven plasma on HIST

14:30  YOU, Setthivoine  University of Washington and University of Tokyo  
Stabilization of a classically-unstable current-carrying magnetic flux tube by helical flows

15:00  ONO, Yasushi  The University of Tokyo  
FRC Merging Formation in TS-3, TS-4 and TS-U Experiments

15:30  Break

16:00-17:45  Poster session II

18:00  Banquet

November 9

Session 7 :

9:00  TANAKA, Fumiyuki  Nihon University  
Initial results of collisional merging experiments in FAT-CM device

9:30  YANAI, Ryoma  The University of Tokyo  
Development of new experimental device focusing on weakly ionized magnetic reconnection using rotating magnetic field

10:00  SANPEI, Akio  Kyoto Institute of Technology  
MHD studies in low-A RFP with SXR imaging diagnostic

10:30  Discussion / Closing

Posters

ishiWATA, Junpei  Nihon University  
Excitation of low-frequency wave in FAT-FRC plasmas

TANAKA, Fumiyuki  Nihon University  
Collisional merging process of field-reversed configuration plasmas in FAT-CM device

ISHIKAWA, Yusai (YAMADA, Shodai)  Nihon University  
Application of pre-ionization technique onto a magnetized coaxial plasma gun

URANO, Takahiro  Gunma University  
Structure of electron-fluid fluctuation in a field-reversed configuration

KAWAI, Shizuka  Nihon University  
Development of compact static plasma source by rotating magnetic field

Takahata, Yoshifumi  The University of Tokyo  
Measurement of electron energy distribution function in rotating magnetic field plasma source

Adachi, Daigo  Gunma University  
Adiabaticity-breaking process and its application to particle separation by using Helmholtz coil

Iwata, Shuya  Gunma University  
Design of ion source electrode for BNCT

Koike, Shintaro  Gunma University  
Feasibility of fueling method by smaller-torus plasma translation to ST

Matsui, Takaya  Gunma University  
Full particle simulation on beam ion plasma in linear confinement system