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

Nover	mber 7		
9:00	Registration / Opening remarks / Announecments		
Session	1:		Chair: Tomohiko Asai
9:30	STEINHAUER, Loren Coupled transport in field-reversed configurations	Tri Alpha Energy	
10:00	LEE, Kiyong 1-D equilibrium (radial) profile to simulate a hollow curre		Research Institute lasma by using symmetry
10:30	Break		
Session	2:		Chair: Michiaki Inomoto
11:00	TAKAHASHI, Toshiki Simulation of a field-reversed configuration plasma control	Gunma Universit	
11:30	SEKIGUCHI, Junichi Initial results of collisional merging experiments in FAT-C	Nihon University CM device	
12:00-1	4:00 Lunch		
Session	3:		<u>Chair : Toshiki Takahashi</u>
14:00	GOTA, Hiroshi Initial Results of C-2W Field-Reversed Configuration Expe	Tri Alpha Energy	
14:30	ROCHE, Thomas Magnetic diagnostic suite and initial data from translatin	Tri Alpha Energy g CTs in C-2W	
15:00	MATSUMOTO, Tadafumi Behavior of CTs injected into C-2U FRC	Tri Alpha Energy	,
15:30	Break		
16:00-1	7:45 Poster session I		
Nover	mber 8		
Session 4:			Chair: Loren Steinhauer
9:00	KANKI, Takashi	Japan Coast Gua	rd Academy

Design 1.		chan : Boren Steinmaaci	
9:00	KANKI, Takashi Development of high accuracy and high speed code for	Japan Coast Guard Academy or 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 Recent results of the HIT-SI experiment	University of Washington	
10:30	Break		

Session 5: Chair: Hiroshi Gota

11:00 FROESE, Aaron General Fusion

Progress towards liquid metal plasma compression in General Fusion

11:30

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: Chair: Takashi Kanki

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: Chair: Masayoshi Nagata

9:00 INOMOTO, Michiaki

Center-solenoid free start-up of spherical tokamak plasma in UTST

9:30 YANAI, Ryoma The University of Tokyo

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 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