

FUNFI2 Conference Programme

Day 1 - 26 Oct. 2016

Session 1 Introduction and Tokamak

8.30-9:00 Registration

	Speaker	Title	
9:00-9:10	A. Pizzuto	Welcome to participants	

9:10	Y. Wu	Fusion driven subcritical system as a Bridge between Fission and Fusion Nuclear Energy Development	Tutorial
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9:50	P. Finck	Nuclear Waste Transmutation: the Potential Role of Hybrid Systems and Major Technical Requirements	Tutorial
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10:30	A. Botrugno	Feasibility of early fusion applications	Oral
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11:00 Coffee break

11:30	B. Kuteev	Development of Tokamak Based Fusion Neutron Sources and Fusion-Fission Hybrid Systems	Tutorial
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12:10	W. Stacey	Technical development of SABR concept for a Subcritical Advanced Burner Reactor	Tutorial
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13:00-14:30 LUNCH

14:30	F. Crisanti	Plasma controls in FFH machines	Tutorial
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15:10	Y. Wang	Development and Experiment of Fusion Neutron Driven Zero Power Subcritical Fast Reactor	Oral
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15:40 Coffee break

16:00	J. Song	Development and application of super Monte Carlo simulation program for fusion and fission nuclear energy systems	Oral
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16:30	F. Panza	Application of a new fast reactor for hybrid systems	Oral
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17:00	M. Gryaznevich	ST40 as a prototype of the fusion core for FFH: design and status of construction	Oral
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17:30	R. Piovan	The RFP as neutron source for fusion-fission hybrid systems: strengths and issues	Oral
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18:00	A. Malizia	Analysis of Safety problem in Fusion Reactors	Oral
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18.15 Session 1 End

Day 2 - 27 Oct. 2016

Session 2 Open Systems and ADS

9:00	A. Rineiski	Safety assessment of critical and subcritical systems with fast neutron spectrum	Tutorial
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9:40	H. Ait Abderrahim	MYRRHA Project Status and New Implementation Plan	Tutorial
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10:20	V. Moiseenko	Stellarator-Mirror Fusion Fission Hybrid systems	Oral
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10:45 Coffee Break

11:00	K. Tsujimoto	Current status of R&D of Accelerator-Driven System for minor actinide transmutation in JAEA	Tutorial
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11:40	O. Ågren	The Straight field line mirror SFLM concept for fusion driven energy production by incineration of spent nuclear fuel	Tutorial
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12:20	W. Zhen	Conceptual Design of a Z-pinch Driven Fusion-Fission Hybrid Reactor and its Development	Oral
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12:45	G. Lomonaco	A short overview of ITER-like pulsed MCF reactors application as hybrid nuclear systems for actinides transmutation	Oral
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13:10-14:30 LUNCH

Session 3 Open Systems and Fuel Cycle

14:30	A. Ivanov	An ECRH Driven High-Field Tandem mirror as a Fusion-Fission Hybrid	Tutorial
15:10	R. Zanino	The Role of Italian universities/CIRTEN for the engineering study of a fission-fusion hybrid reactor (FFHR)	Oral
15:35	Coffee break		
15:45	M. Zuin	Neutron Production and Fast Particle Dynamics in Reversed-Field Pinch Plasmas for FFH Application	Oral
16:10	G. G. Kulikov	Thorium blanket driven by fusion neutron source: generation for fission reactors of a unique fuel characterized by super-high fuel burn-up	Oral
16:35	C. Innarella	First preliminary conceptual experimental set up towards a hybrid reactor blanket	Oral
17:00	S.H. Hong	Neutronic Analysis of Spent Fuel Recycling Option in a Hybrid System with DUPIC Fuel	Oral
17:25	C. E. Velasquez Cabrera	Neutron Flux map from fusion to Fusion-Fission Systems	Oral
17:50	S. Sahin	Fist Wall Lifetime Extension with Flowing Liquid Zone for Fusion Reactors	Oral
18:15	M. Tarantino	Development of Liquid Metal Technologies for Innovative nuclear systems	Oral
18:40	Session 3 End		

Day 3 - 28 Oct. 2016**Session 4 Diagnostics**

9:00	F. P. Orsitto	DEMO-like minimum set of diagnostics/controls for FFH reactor	Oral
9:15	A. Krasilnikov	Fusion Reactor Relevance of the ITER Diagnostics Developed in Russia	Oral
9:40	I. Kallne	Comments on neutron measurements on fusion, fission and hybrid reactors	Oral
10:05	M. Nocente	Gamma-ray diagnostics for FFH	Oral
10:25	M. Tardocchi	Neutron diagnostics for fusion-fission hybrid: lessons learned from integration of neutron diagnostics on JET and ITER	Oral
10:45	M. Angelone	Nuclear Detectors for Hybrid reactors: Lesson learned from the EU Test Blanket Modules of ITER	Oral
11:00	Coffee Break		

11:15-13:15 Session 5 : Discussions**Discussion on level of readiness**

11:15-12:00	Y. Wu	Level of Readiness of technologies and R&D requirements for FFH	I session
12:00-12:15	F. P. Orsitto	Level of Readiness of FUSION technologies	II session
12:15-12:30	A. Pizzuto	Challenges of integrating fusion and fission technologies / Conclusions and Future perspectives	II session

13:15 Conference End