

FUNFI schedule. A straw man display of tutorials/lectures and proposed orals, besides social events (June 30/jk)

Time	Monday	Tuesday	Wednesday	Thursday
8.00	Registration			
9-10.30	Intro. T1	T4 T5	T6 L5	016, 017, 018
Coffee	0**	10	0	(+15)
11.00-13.00	T2 L1 O1	L3 03, 04, 05	L6 O10, O11, O12	S1 S2 Concluding discussion
Lunch	(+5)	(+5)	(+5)	Stop at 13.00
15.00-17.00	O2 T3 L2	L4 O6, O7, O8	T7 013, 014, 015	
Coffee	(+5)	(+5)	(+5)	
17.30-18	Poster*	O9 Poster discussion		
	-	15		
	19.30 Reception		18.00 Boat/banquet	

* Posters on display from Monday with special discussion session on Tuesday

** This indicates infringement of nominal break times (in minutes)

Time allocations.

Tutorials and special lectures: 40 min plus 10 min discussion

Lectures: 30 min plus 10 min discussion

Orals: 20 min plus 5 min discussion

LIST OF TUTORIALS, SPECIAL LECTURES, AND LECTURES

Tutorials (T)

1. Science and technology challenges in the development of magnetic fusion energy systems
Robert J. Goldston (Princeton University, Princeton, USA)
2. Neutronics for critical fission reactors and sub-critical fission in hybrids
Massimo Salvatores (CEA, Cadarache, France)
3. Fast neutron reactors; principal features and experience
Andrei Rineiski (KIT, Karlsruhe, Germany)
4. Fuel cycles and envisioned roles of fast neutron reactors and hybrids
Massimo Salvatores (CEA, Cadarache, France)
5. Principles of fusion neutron sources and fusion-fission hybrid reactor applications
Weston M. Stacey (Georgia Institute of Technology, Atlanta, Ge, USA)
6. Principles of ADS hybrids and the EU research program
Enrique Gonzalez (CIEMAT, Madrid, Spain)
7. Overview of nuclear energy; present and projected commercial use.
Alexander Stanculescu (Idaho Nat. Lab, Idaho Falls, USA)

Special Lectures (S)

1. Geo-political and strategic aspects of present and future nuclear energy.
Hans Blix (Former GD of IAEA)
2. Nuclear energy acceptance and potential role to meet future energy demand. Which technical/scientific achievements are needed?
Roland Schenkel (Former DG of JRC-EU)

Lectures (L)

1. Overview of hybrid system research activities in China
Yican Wu (Chinese Academy of Sciences, Hefei, China)
2. Research on fusion neutron sources
Mikhail P. Gryaznevich (CCFE, Culham, UK)
3. New approaches to the tokamak-based hybrids
Michael Kotschenreuther (Univ. of Texas, Austin, USA)
4. Fusion neutron research at Novosibirsk including experiments
Alexander A. Ivanov (Budker Inst. of Nuclear Physics, Novosibirsk, Russia)
5. Mirror-based hybrids of recent design
Ralph Moir (LLNL, Livermore, Ca, USA)
6. The hybrid project based on the straight field line mirror concept
Olov Ågren (Uppsala Univ., Uppsala, Sweden)

FUNFI CONTRIBUTIONS PROPOSED FOR ORAL PRESENTATIONS

No	Speaker	Abstract title
1.	Gao	Design, Construction and experiment of liquid LiPb/PbBi eutectic loops for advanced nuclear reactors in China
2.	Zheng	The neutronics studies of fusion fission hybrid power reactor
3.	Jiang	Conceptual design of fusion-fission hybrid reactor for spent fuel burning (FDS-SFB)
4.	Reed	A fusion-fission hybrid reactor in steady-state L-mode tokamak configuration with natural uranium
5.	Đuran	Prospects of steady state magnetic diagnostic of fusion reactors based on metallic Hall sensors
6.	Yurov	Parameters optimization in a fission-fusion system with a mirror machine based neutron source
7.	Ryutov	Modulating the neutron flux from a mirror neutron source
8.	Rao	Experimental studies on the effect of self-shielding on amount of fissile fuel breeding in thorium oxide pellets irradiated with 14-MeV neutrons
9.	Orsitto	Diagnostic systems for hybrid reactors
10.	Noack	Safety and power multiplication aspects of mirror fusion-fission hybrids
11.	Moiseenko	Plasma heating and hot ion sustaining in mirror based hybrids
12.	Anglart	Principles of passive and active cooling of mirror-based hybrid systems employing liquid metals
13.	Srinivasan	Indian fusion test reactor
14.	Taczanowski	Actinide incineration in fusion-fission hybrids- a model nuclear strategy
15.	Källne	Neutron diagnostics for mirror hybrids
16.	Moir	Fission-suppressed fusion, breeder on the thorium-cycle, and nonproliferation
17.	Goldston	Climate change, nuclear power, and nuclear Proliferation: magnitude matters
18.	Mirnov	What we should do for transition from current tokamaks to fusion fission reactor (From fusion romance to reality)

FUNFI CONTRIBUTIONS PROPOSED FOR POSTER PRESENTATIONS (alphabetic author order)

Autore	Institution	Titolo
1. Anikeev	Novosibirsk State Univ., Novosibirsk, Russia	Optimisation of the neutron source based on gas dynamic trap for transmutation of radioactive wastes
2. Beklemishev	Budker Inst. of Nuclear Physics, Novosibirsk, Russia	GDT-based Neutron Source with multiple-mirror end plugs
3. Chernitskiy	Inst Nuclear Physics, Kharkiv, Ukraine	RF antenna damage in a mirror based fusion–fission hybrid
4. Ciotti	Associazione ENEA-Euratom, Frascati (Rome), Italy.	Italian hybrid and fission reactors scenario analysis
5. Crisanti	Associazione ENEA-Euratom , Frascati (Rome), Italy.	A Fusion-Fission test experiment proposal, based on the standard H-mode scenario.
6. Croci	CNR-IFP, Milano, Italy	A new GEM based neutron diagnostic concept for high power deuterium beams
7. Fomin	Akhiezer Inst Theor Physics, Nati Sci Center, Ukraine	Physical Basis of Advanced Fast Reactor Working in Nuclear Burning Wave Regime
8. Giacomelli	Univ Milano-Bicocca, Milano, Italy	Diamond detector for beam monitors of fast neutrons at spallation sources
9. Hagnestål	Uppsala University, Uppsala, Sweden	Coil system for a mirror-based hybrid reactor
10. McNamara	Leabrook Computing	NEST: A Nuclear Energy Security Treaty. Separating Nuclear Energy from Nuclear Weapons.
11. Moiseenko	Inst Plasma Physics, Kharkiv, Ukraine	Magnetic field of combined plasma trap
12. Moiseenko	Inst Plasma Physics, Kharkiv, Ukraine	A fuel for sub-critical fast reactor
13. Moiseenko	Inst Plasma Physics, Kharkiv, Ukraine	Fusion neutron generation computations in a stellarator-mirror hybrid with neutral beam injection
14. Nocente	Uni Milano-Bicocca, Italy	Neutron sensitivity and γ -ray measurements in a fusion environment
15. Pietropaolo	Univ Roma Tor Vergata, Italy	Development of fast neutrons detectors in the 1-20 MeV energy region
16. Zou	Inst Plasma Phys, Chinese Acad Sci, Hefei, China	CAD-based 4D Neutronics Simulation Software for Fusion, Fission and Hybrid Systems

