

BREAKOUT SESSION

September 14 (Thursday)

Section “Prospects of Hydrogen Energy and Controlled Thermonuclear Fusion Development”

Morning session (09:00–12:30)

NNC RK conference hall (building 54B)

Chairpersons: D. Zarva (Kazakhstan), V. Vasilyev (Russia)

1	RESULTS OF RECENT EXPERIMENTS ON THE TOKAMAK KTM <i>Ye.A. Kashikbayev (Kazakhstan, branch IAE NNC RK)</i>	09:00-09:15
2	BENCH FOR HOT VACUUM TESTING OF STRUCTURES, PRODUCTS AND MATERIALS OF IN-CHAMBER COMPONENTS OF THERMONUCLEAR REACTORS <i>V.A. Vasilyev (Russia, JSC “NIIEFA”)</i>	09:15–09:30
3	DIAGNOSTIC COMPLEX OF THE T-15MD TOKAMAK <i>A.V. Sushkov (Russia, SRC “Kurchatov Institute”)</i>	09:30–09:45
4	STUDYING THE EFFECT OF PLASMA AND THERMAL LOADS ON BERYLLIUM <i>I.A. Sokolov (Kazakhstan, branch IAE NNC RK)</i>	09:45–10:00
5	MEASUREMENTS OF PLASMA RADIATION LOSSES ON THE TOKAMAK KTM <i>A.Zh. Duysen (Kazakhstan, branch IAE NNC RK)</i>	10:00–10:15
6	BENCH FOR THERMOCYCLIC TESTING OF MATERIALS AND STRUCTURES FACING PLASMA CEPHEI-M WITH POWERFUL HEAT FLOWS <i>R.V. Rulev (Russia, JSC “NIIEFA”)</i>	10:15–10:30

7	METHODICAL EXPERIMENTS ON STUDYING THE INTERACTION OF LITHIUM CERAMICS WITH NEUTRON IRRADIATION BY VACUUM EXTRACTION <i>Zh.A. Zaurbekova (Kazakhstan, Al-Farabi KazNU)</i>	10:30–10:45
8	DEVELOPMENT OF A METHOD FOR OBTAINING HYDROGEN BY PYROLYSIS OF METHANE IN A SHF DISCHARGE AT AN INSTALLATION FOR APPLIED RESEARCH <i>T.R. Tulenbergenov (Kazakhstan, branch IAE NNC RK)</i>	10:45–11:00
–	<i>Coffee break</i>	11:00–11:30
<i>Chairpersons: A. Korovikov (Kazakhstan), A. Sushkov (Russia)</i>		
9	STATUS OF WORK ON THE DEVELOPMENT OF MEANS OF PROTECTION, SYNCHRONIZATION, CONTROL AND DATA COLLECTION OF THE TOKAMAK KTM <i>K.I. Baystrukov (Russia, LLC “TomIUS-Project”)</i>	11:30–11:45
10	IMPROVEMENT OF THE METHOD OF GRINDING METAL POWDER MIXTURES <i>A.S. Urkunbay (Kazakhstan, branch IAE NNC RK)</i>	11:45–12:00
11	THE POSSIBILITY OF USING AN ELECTROCHEMICAL HYDROGEN PUMP TO EXTRACT TRITIUM FROM A THERMONUCLEAR REACTOR BLANKET <i>B.V. Ivanov (Russia, SRC “Kurchatov Institute”)</i>	12:00–12:15
12	EXPERIENCE IN MANUFACTURING AND TESTING MODELS OF PLASMA-FACING ELEMENTS OF SF6 INSTALLATIONS DESIGNED FOR HIGH THERMAL LOADS AND CONTACT WITH LIQUID LITHIUM <i>M.S. Kolesnik (Russia, JSC “NII EFA”)</i>	12:15–12:30
–	<i>Lunch</i>	12:30–14:00

BREAKOUT SESSION

September 14 (Thursday)

Section “Prospects of Hydrogen Energy and Controlled Thermonuclear Fusion Development”

Afternoon session (14:00–15:30)

NNC RK conference hall (building 54B)

Chairpersons: Ye. Koyanbayev (Kazakhstan), T. Kulsartov (Kazakhstan)

13	STUDYING THE APPLICABILITY OF ADDITIVE TECHNOLOGIES IN THE MANUFACTURE OF IN-CHAMBER COMPONENTS OF THERMONUCLEAR REACTORS <i>V.V. Ruzanov (Russia, JSC “NIIIEFA”)</i>	14:00–14:15
14	EFFECT OF HELIUM PLASMA ON THE STRUCTURAL STATE OF SURFACE CARBIDE LAYER OF TUNGSTEN <i>A.Zh Miniyazov. (Kazakhstan, branch IAE NNC RK)</i>	14:15–14:30
15	PLASMA FACING COMPONENTS IN THE TRT PROJECT: MATERIALS AND TECHNOLOGIES <i>P.Yu. Piskarev (Russia, JSC “NIIIEFA”)</i>	14:30–14:45
16	STRUCTURAL AND PHASE STATES OF TUNGSTEN AS A RESULT OF CARBIDIZATION IN A BEAM-PLASMA DISCHARGE <i>G.K. Zhanbolatova (Kazakhstan, branch IAE NNC RK)</i>	14:45–15:00
17	NUCLEAR ARRANGEMENT, THERMONUCLEAR FUSION <i>D.M. Taniyev (Kazakhstan, IE “Taniyev D.M.”)</i>	15:00–15:15
18	THE EFFECT OF G-IRRADIATION ON THE MAGNETIC CHARACTERISTICS OF DOUBLE ORTHOFERRITES La_{0,5}Re_{0,5}FeO₃ (R=Eu,Nd) <i>K.I. Yanushkevich (Belarus, NPC NAS RB)</i>	15:15–15:30
