

Poster prize zone: stands BO-001 – BO-027 — gold labels below

I. Fuel Cycle and Breeding Blankets

BO-001	Alex LITTLE	Tritium Production from Helium-3 Using Inertial Electrostatic Fusion Devices
BO-002	William WATSON	Development of a New Solid Tritium Breeder Blanket
BO-003	Yamato FUJII	Optimization of the Experimental System for High-Accuracy Benchmarking of Large-Angle Scattering Cross Sections of Lithium with 14 MeV Neutrons
BO-004	Biao LYU	Pressure drop and flow distribution in a mock-up of the ITER WCLL TBM: numerical investigation of 3D magnetohydrodynamic flows
BO-005	Ayman A. HAMADA	Validation of an OpenFOAM solver for liquid metal magnetoconvection: Rayleigh-Bénard with an applied vertical magnetic field.
BO-006	Simone MINGOZZI	Equivalent MHD boundary condition for computationally efficient numerical simulations of liquid metal systems with conductive walls for nuclear fusion
BO-007	Michele VERNAZZA	Modelling activities using SIMMER-III code to support the LIFUS5/Mod3 Series F experimental campaign
BO-008	Daniel KURZ	Assessing the natural ortho/para conversion of protium in the T2ApIR experiment
BO-028	Akito IPPONSUGI	Water Detritiation System for the JA DEMO.
BO-029	Ovidiu Ioan BALTEANU	Experimental and Modeling Assessment of Pd-Ag Membrane Integration in a Semi-Industrial CECE-Based Water Detritiation System
BO-030	Pietro ARENA	Design optimisation of a WCLL Test Blanket Unit for its testing in IFMIF-DONES
BO-031	Amaia VILLA	SiC Thin Films with Tungsten-based Interlayers as Tritium Permeation Barriers in Fusion Breeding Blanket Environments
BO-032	Francesca FANTINI	F4E_D_3EWG3M - F4E-EUROfusion joint programme for development Breeding Blanket Technologies
BO-033	Alessia SANTUCCI	Design and Development of the TRYDENT Facility for Trace Hydrogen Purification
BO-034	Tomoya YOKOI	Development of an Online Hydrogen Isotopes Multipoint Measurement System Using Raman Spectroscopy
BO-035	Abby WALDRON	Monolithic Spatial Heterodyne Spectroscopy as a Robust Tool for Tritium Accountancy
BO-036	Hideaki MATSUURA	Tritium containment property within alumina container for high temperature gas cooled reactor with tritium production capability
BO-037	Thomas GIEGERICH	Accumulation of Tritium and Protium in the Reactor Fuel Cycle Operation with Direct Internal Recycling
BO-038	Simon NIEMES	Overview of current tritium-based R&D; efforts for fuel cycle instrumentation and storage technologies at TLK
BO-039	Nirajan ADHIKARI	Conceptual Cryopump for Removing Impurities and Helium-Ash for a Fusion Fuel Cycle
BO-040	Giulia Valeria CENTOMANI	Feasibility Study of a multi-stage cryopump for the DIR of a compact tokamak
BO-041	Bernhard PLOECKL	Recent progress in manufacturing the pellet launching system for JT-60SA
BO-042	Arturs ZARINS	Characterisation of paramagnetic radiation-induced defect centres in two-phase lithium orthosilicate – lithium metatitanate composite material exposed to various types of ionising radiation
BO-043	Bence LONGAUER	Design Improvements to the HUN-REN CER Hydrogen Batch Extruder and Systematic Measurements for Extrusion Model Validation
BO-044	Qiuran WU	Integration of On-The-Fly Variance Reduction Method into OpenMC and Application to EU-DEMO Fusion Reactor
BO-045	Luigi BARONE	Fluid dynamics simulation of phenomena related to molten salt use in nuclear fusion
BO-046	Nicolò BADODI	Simulating water-molten metal interaction in OpenFOAM: a methodology to evaluate LOCA loads on relevant structures.
BO-047	Vittorio COSSU	Pre-test analysis of experimental In-Box LOCA in LIFUS5/Mod4 facility using the SIMMER/RELAP coupling tool
BO-048	Marco FRANCESCHI	Quality control of Pb-16Li alloy pre- and post- corrosion tests of materials by means of ICP-OES and DSC techniques

BO-049	Takumi CHIKADA	Deuterium permeation and corrosion behaviors of enamel-coated steel with ceramic breeder pebbles
BO-050	Kiyoto SHIN-MURA	Mechanical strength and chemical stability of $\text{Li}_{2+x}(\text{Ti}_z\text{Zr}_{1-z})\text{O}_{3+y}$ breeder pebbles at elevated temperatures in 0.1% H_2/He
BO-051	Inesh KENZHINA	Features of solid-state synthesis of rare-earth metal beryllides MeBe_{13} (Ho, Yb, Er) from beryllium powders and their hydrides
BO-080	Alessandro VENTURINI	Experimental Characterization of a Gas-Liquid Contactor Column for Tritium Extraction from Flowing Lead-Lithium under WCLL TBS Operating Conditions
BO-105	Monica GEHRIG	Progress on the Fusion Innovation Research Enginer Blanket Collaborative on Test Facilities (FIRE-BCTF)

J. Materials Technology

BO-052	Adrià GALLIFA TERRICABRAS	Thermo-Mechanical Validation of Bolted ITER Blanket Cooling Manifold Supports with Alumina-Coated Interfaces
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H. Remote Handling ; Vessel/in-vessel Engineering

BO-009	Ting WANG	Remote Maintenance Constrained Multi-Objective Optimization of Parameterized Tokamak Blanket Geometry
BO-010	Jonas DENGEL	Experimental Validation of a Mechanical Multi-Pipe Connection for Blanket Maintenance
BO-011	Pradeep GAUDEL	Optimized design, analysis and control of heavy-duty manipulator fusion nuclear application
BO-012	Francesco MARINO	Model-Based Design and Simulation of an Optimized Manipulator Arm for ICH Antenna RH in DTT
BO-013	Andrea REALE	A preliminary Digital twin methodology for soft-real-time analysis of manipulator structural deformations during remote handling operations in compact tokamaks
BO-014	Vincenzo CLAPS	Design Update on the In-Bore Welding Tool for DN200 in-vessel pipes
BO-015	Andrea CLAGNAN	Fixation system mockup for VNS divertor: a systems engineering design framework
BO-053	Antonio DI GIACOMO	Preliminary Design of In-Bore Cutting Tool for DN200 in-vessel pipes
BO-054	Jozsef SZOKE	Induction coil development for in-bore brazing of DEMO DN200 pipes
BO-055	Emanuele FULCO	In-Bore Cutting of AISI 316L pipes for tokamak machines: cutting tests and loads estimation
BO-056	Nicolas JEAN	Design and prototyping of Cable Management System for the In-Vessel Viewing System scanning probe
BO-057	Shilen PAU	Recent Developments of the STEP Fusion Powerplant Divertor Cassette Design to Meet Integration with Other In-Vessel Systems
BO-058	James LILBURNE	Inboard Shielding Module Concept Design for the STEP Fusion Powerplant
BO-059	Adam PURKIS	STEP Fusion Powerplant EM modelling strategy for off-normal events affecting steady state operations
BO-060	George STOREY	Impact of Vertical Maintenance Strategy on Deliverability of the STEP Prototype Plant
BO-061	Danil VODOLAZSKII	Imitation of maintenance skills by autonomous agents
BO-062	Alberto VALE	Docking and Charging Tower Concepts for Cooperative Trolley Fleets in Nuclear Fusion Facilities
BO-063	Geunhong KIM	Manufacturing of High-performance Fasteners for ITER Vacuum Vessel Gravity Support
BO-064	Adrià GALLIFA TERRICABRAS	Lessons Learned from the Series Production of ITER Divertor Pins, Sleeves and PFC Links
BO-065	Takuya SAKAMOTO	Development of high-load Grippers for Initial Assembly of ITER Blanket Module
BO-066	Sa-Woong KIM	Manufacturing Status and Technical Issues of the ITER Blanket Shield Block in Korea
BO-067	Killian HUC	4D Viewer: An Interactive and Immersive Application for the Visualization of Technical Sequences in Fusion Engineering

BO-068	Jean-Pierre FRICONNEAU	System engineering approach for Tokamak component replacement under ALARA requirement: ITER TBM case
BO-069	Rocco MOZZILLO	Remote Handling approach for Volumetric Neutron Source Divertor Replacement
BO-070	Francesca Giovanna LANZOTTI	Definition and Implementation of Dimensional Risk Management Strategy for the DTT Remote Handling Facility
BO-071	Alessandra SALVITTI	DTT Port Plug Structure: definition and preliminary design
BO-072	Antonio CASTALDO	Electromagnetic analyses of DTT stabilizing plates during disruptions
BO-073	Dohee LEE	Conceptual and Joint-Level Mechanical Design of a Long-Reach Tendon-Driven Manipulator for K-DEMO
BO-074	Van-Dung TRUONG	Quantification of Variable Contributions using Dimensional Analysis and Pi Theorems for Early Conceptual Design of Complex Systems
BO-075	David BUSSON	Towards a unified ROS2-based architecture for heterogeneous robotic systems in fusion remote handling and inspection applications
BO-076	Andrea ZOPPOLI	A Calibrated VR-Based methodology for accurate Trajectory Planning in ITER Remote Handling

F. Magnets, Cryogenics and Electrical Systems

BO-016	Juan SANCHEZ-GAMINO	Preliminary Design and Simulation of the HTS Poloidal Field Coil Power Supply for the SMART Tokamak
BO-017	Pablo VICENTE-TORRES	Design and Validation of the Upgraded Power Supply for the SMART Tokamak
BO-018	Zixu XIAO	Transient Propagation and System-Level Impact of Local Breakdown Events in MV-Class Acceleration Grid DC Power Supply Systems
BO-019	Yushen ZHOU	Structural Mechanical Performance and Failure Modes of Large-Bore Magnet Systems for Field-Reversed Configuration Fusion Devices
BO-020	Baptiste BOUDES	Parametric Structural Exploration of High Field Fusion Magnets Using Simplified Electromagnetic and Mechanical Analysis
BO-021	Zhuo ZENG	Electromagnetic Launch Experiment of the enhanced EMPI on J-TEXT Tokamak
BO-022	Finn SUTCLIFFE	Parametric Study of AC Loss in 50 kA/20 T Stacked Tape Conductor for Future Fusion Central Solenoid
BO-023	Mauro SPRO	3D numerical modelling of electric arc faults in nuclear fusion facilities
BO-024	Alberto DARJAZI DOLABY	Active emulation of electrical loads for testing fusion power supplies
BO-025	Xiangyu FU	Analysis of Operating Characteristics of Switching Mode Power Supplies in Stray Magnetic Field
BO-026	Francesco DESANA	Preliminary investigations for electrical modelling of supercapacitor performance in the presence of external magnetic fields and under critical operating conditions
BO-027	Domenico REGINE	Detailed Magnet Modeling within the DTT Magnetic System
BO-077	Alessandro ANEMONA	DTT Central Solenoid Winding Pack, Pre-compression system and HTS insert design
BO-078	Luigi MUZZI	Experimental studies on the insulation system for the DTT Central Solenoid Winding Pack
BO-079	Luigi D'ALIA	Electromagnetic and Structural Analysis of the Central Solenoid for the Divertor Tokamak Test Facility
BO-081	Monika LEWANDOWSKA	Thermal – hydraulic and quench analysis of conductors for the EU-DEMO LAR central solenoid
BO-082	Frederic MICHEL	Status and preliminary design of the EU-DEMO Cryogenic System
BO-083	Morena ANGELUCCI	Requirements, Architecture, and Key Features of the DTT Cryogenic System
BO-084	Gianluca BARONE	Design and Technical Requirements of the Thermal Shield System for the DTT Facility
BO-085	Fabio VIGANO'	Confirmation of Electromagnetic Loads and Structural Integrity of ITER Thermal Shield Sector Modules under Multi-Physics Loads
BO-086	Corrado GROTH	Multiscale Electromagnetic-Structural Workflow for the Optimisation and Verification of DEMO Feeder Busbar Clamping System

BO-087	Mikhail KHOKHLOV	Validation of Fast Plasma Decay Electromagnetic Simulations with Wendelstein 7-X Rogowski Coil Measurements Inside and Outside the Plasma Vessel
BO-088	Alessandro LAMPASI	Completion of power supply systems for the DTT in-vessel coils
BO-089	Davide MACIOCE	Design and qualification of the ITER In-Vessel Coils' Feedthroughs
BO-090	Aldo DI ZENOBIO	Design of the VNS Toroidal Field coils in Low Temperature Superconductors
BO-091	Shiqiang HAN	From Design to Final Installation Phase of ITER Toroidal Field Gravity Supports
BO-092	Takumi ONCHI	A highly parallel current source for the toroidal field coil on the QUEST spherical tokamak
BO-093	Simone VALENTI	Preliminary Design of a Power Quality Compensation System for Reactive Power and Harmonic Mitigation in a FOAK Fusion Power Plant Toroidal Field Power Supply.
BO-094	Pietro ZITO	Preliminary electrical transients and thermal-hydraulic analyses of the toroidal field superconducting magnets of the future European nuclear fusion power plants in case of quench
BO-095	Sylvie NICOLLET	ITER TFC Safety Class Quench Detection: Thermohydraulic Analyses, Quench Occurrence and Detection Criteria
BO-096	Ivan KONOPLEV	Overview of the recent progress of microwave quench detection: theoretical model developments and experimental results.
BO-097	Yingqiao WANG	Upgrade progress of HL-3 power supply system
BO-098	Nils ARDEN	Integration of the new Upper Divertor Coils in the ASDEX Upgrade power supply system and first operational experience
BO-099	Frederic KOCH	Extending RMP-Coil Operational Range via Supercapacitor-Based Energy Storage in ASDEX Upgrade
BO-100	Sabino PIPOLO	Final design of DTT CS and PF power supplies with unprecedented supercapacitor energy storage
BO-101	Gianluca DI PIETRO	Preliminary Design of the CS and PF Power Supplies for the TRUST Tokamak
BO-102	Simone CARUSOTTI	Passive High Temperature Superconductors (HTS) Shielding Concept for Neutral Beam Injection (NBI) in Fusion Devices
BO-103	Alexandre TORRE	Overview of the french national SF-Cond HTS research project and first activities
BO-104	Michele BOMBARDIERI	Design of 100kA HTS cable for fusion magnets
BO-106	Luana BARBOSA PINA PEREIRA	Stellarator magnets via laser engraving of wide conductive surfaces
BO-107	Laura D'ANGELO	Benchmarking Quench Analysis Strategies for Next-Generation Stellarator Systems Codes
BO-108	Wei DU	Zero-Voltage Switching (ZVS) Modulation Strategy for a Next-Generation DC-Isolated Fusion Magnet Power Supply Based on a Three-Level DAB Topology
BO-109	Chao XU	Dynamic Power Phase-Shift Coordination and Stability Analysis of Fusion Coil Power Supply Based on 3L-DAB
BO-110	Giuseppe TADDIA	Voltage-source converters with integrated energy storage for fast control of plasma
BO-111	Francesco SANTORO	Studies on the MEST system decoupling from the electrical grid

Poster prize zone: stands S1-01 – S1-15 — gold labels below

E. Diagnostics

S1-01	Simone KALDAS	An Adaptive Modular Framework for Robust Diagnostic Reconstruction and Plasma State Monitoring
S1-02	Giulia EMMA	First tomographic reconstruction of the SPIDER multi-beamlet configuration
S1-03	Niladri ROY	IFMIF-DONES lithium target diagnostic based on mmWave radar (LiRADAR): system overview and first experimental results
S1-04	Pablo Ignacio ARAYA CARMONA	Commissioning of STUMM-PROTO at UGR-DONES: Prototype Implementation and Lessons Learned for the Future STUMM System
S1-16	Beatrice SEGALINI	Combining multiple synthetic diagnostics to construct a beam scenario database for ITER's Neutral Beam Injector prototype
S1-17	Marko CVEJIC	High-Resolution, Multi-Channel Spectroscopic Diagnostics of the ASDEX Upgrade Neutral Beam Injection System
S1-18	André TORRES	Real-time ELM energy estimation on ASDEX Upgrade
S1-19	Tim-Oliver HOHMANN	Monitoring of glow discharge boronization with quartz microbalance sensors at ASDEX Upgrade
S1-20	Katarzyna MIKSZUTA-MICHALIK	Progress in the Design of Bolometry and Soft X-Ray Diagnostics for COMPASS-Upgrade
S1-21	Cederik MEEKES	Development and testing of amorphous platinum front end mirror coatings for optical fusion diagnostics
S1-22	Veronica DE LEO	Design, calibration and performance of a Hybrid Al-Cu Triple-GEM detector with remote front-end electronics for fusion devices
S1-23	Enrico PERELLI CIPPO	SDD detectors as spectrometers for 14 MeV neutrons: characterization and applications to nuclear fusion devices
S1-24	Sören MÖLLER	Tritium-tomography via MeV ion-beam analysis
S1-25	Riccardo AGNELLO	Homogeneity of a large negative ion beam for fusion by emission spectroscopy
S1-26	Rafael MARQUES	Optomechanical and neutronic design of the ITER fast-ion loss detector
S1-28	Jiwon SEO	Comparative Evaluation of Gamma Detection Modules for Precise Neutron Fluence Measurement in ITER NAS
S1-29	Boseong KIM	Performance Evaluation of ITER VUV Spectrometer Data Acquisition System with a Multi-Detector Configuration
S1-30	Victor MONCADA	An infrared video compression algorithm dedicated to high data volume analysis
S1-31	Erwan GRELLIER	TOKIRA: an Automated Infrared Image Alignment for In-Vessel Component Mapping in the WEST Tokamak
S1-32	Philip BATES	Operational sequence optimisation for ITER First Wall inspection using the In-Vessel Viewing System
S1-33	Jonathan GASPAR	In-situ assessment of the emissivity of ITER-grade plasma facing component in the WEST lower divertor
S1-34	Eric GAUTHIER	Characterization of Runaway Electrons and their impact on tungsten PFCs on WEST
S1-35	Marie-Helene AUMEUNIER	Multi-Physics Simulations for Advanced Thermal Protection of Tokamaks: Development and Experimental Validation of the IMPACT Platform
S1-36	Christoph VON SEHREN	Investigation of thermal conductivities and contact conditions in UHV
S1-37	Wonik JEONG	Design of an in-vessel Penning ion gauge for local neutral pressure measurement in KSTAR tungsten cassette module
S1-38	Diogo RECHENA	Design and performance of the ITER Collective Thomson Scattering (CTS) ex vessel quasi-optical interface components
S1-39	Hajin KIM	Optical design of a top-port injected laser focusing lens for the KSTAR divertor Thomson scattering system
S1-40	Ichihiko YAMADA	Experimental study of the distortion of the electron velocity distribution function by Thomson scattering system
S1-41	Enrico AYMERICH	Fast solution of heat diffusion equation on STRIKE calorimeter through Physics-Informed Neural Networks
S1-42	Jacob RUHNAU	Transitioning Compact Bolometer Cameras from passive to active cooling with 3D-printed casings through the Wendelstein 7-X Project

S1-43	Seungtae OH	Infra-Red Video Bolometer (IRVB) of Korea Superconducting Tokamak Advanced Research (KSTAR)
S1-44	Jeongwon LEE	Development of a finite element method based equilibrium reconstruction model for transient and off-normal plasma phases in KSTAR
S1-45	Danaël CHOLLETON	Remote Alignment Control System for ITER's CXRS Diagnostic: The Line-of-Sight Finder Approach
S1-46	Domonkos NAGY	Opto-mechanical Design of the Optical Pellet Diagnostic Prototype for the ITER Disruption Mitigation System
S1-47	Junhyoung PARK	Design of the Remotely Replaceable ITER First Wall Samples Diagnostic for Erosion and Fuel Retention measurements
S1-48	Michal POKORNY	Broadband pre-matching elements for ITER diagnostic systems with mirror bias voltage measurement output signal
S1-49	David NÉBOUY	GPU-accelerated IR image processing for real-time temperature mapping and hotspot tracking in the UWAVS diagnostic (ITER)
S1-50	Markus VOGELBACHER	Vision Based Real-Time Monitoring and Deep Learning Enhanced Droplet Detection for Ceramic Breeder Pebble Production
S1-51	Emmanuele PELUSO	Bolometric reconstructions and characterisation of radiation losses in highly emitting regions of DTE3 plasmas
S1-52	Matteo Hakeem KUSHORO	SAPPHIRE-SSD: a Sensor Advancement Project to Produce an Highly Innovative, Resilient and Economical Solid State Detector
S1-53	Beatriz BRAÑAS	Performance evaluation/assessment of a mmWave radar system for surface scanning of the IFMIF-DONES liquid lithium target

C. Plasma Heating and Current Drive

S1-05	Emanuele INVERNIZZI	Design and Optimization of a Single-Channel cooling geometry for the ECRH front-steering mirror of DTT
S1-06	Sofia BERTOLAMI	Thermal and Structural Verification of the Polarizer Mirror Design for DTT ECRH System
S1-07	Mohammad Amin IMANI	Signal Tests of High-Power Broadband Combining Stages for the DTT ICRH Transmitter
S1-08	Alessandro LA ROSA	Mechanical design and functional testing of a high-vacuum compatible motion system for a retractable diagnostic calorimeter for MITICA
S1-09	Arthur MAZZEO	Experimental Validation of Hybrid Fluid-Kinetic Plasma Model for RF Inductively Coupled Plasma Positive Ion Sources
S1-10	Iacopo REGOLI	Fluid models as a tool to investigate possible plasma non-uniformity compensation strategies in giant negative ion sources
S1-11	Joey RUBIN	Static and Dynamic Effects Influencing the Performance of the ELISE Negative Ion Source in H and D
S1-12	Zijian BIAN	Adaption of the ITER H&CD; Workflow to MUSCLE3 for multi-scale integrated modelling
S1-13	Cecilia PIATTI	Integrated multi-physics simulations of a gyrotron cavity equipped with TPMS-based cooling structures
S1-14	Fabio GRAZIANO	Stray radiation minimization via real-time polarization control for DTT's scenarios
S1-15	Sota FUKUNO	Numerical study on square corrugated waveguide FADIS properties in dual-frequency (110/138 GHz) operations based on beam propagation and coupling analyses
S1-27	Silvio CECCUZZI	Design and Simulation of a Regulated High-Voltage Power Supply for ICRF Tetrode Transmitters Using DTT as Study Case
S1-54	Takahiro YAMAGUCHI	Implementation of an 8.56-GHz polarization-selected electron cyclotron heating system on the QUEST spherical tokamak
S1-55	Yuya OTSUKA	An upgrade of the electrode-discharge system for coaxial helicity injection on the QUEST spherical tokamak

Poster prize zone: stands S2-01 – S2-09 — gold labels below

K. Safety and Environment, Socio-economic studies and Technology Transfer

S2-01	Ylenia KOGOVŠEK ŽIBER	Assessment of Shutdown Dose Rates Following the Final Deuterium-Tritium Campaign at JET
S2-02	Dilmurod TUYMURODOV	Sensitivity of shutdown dose rate and waste classification predictions to evaluated nuclear data in the IFMIF-DONES test cell
S2-03	Akira TERUYA	Evaluation of tritium mass transfer rates from liquid lithium to the gas phase and yttrium
S2-04	Shogo SAIKI	Tritium Accumulation in Egeria Densa Growing in Tritiated Water
S2-05	Virginie LOMBARDI	Effect of Water Moderation on RAFM Steel Activation: a radially resolved analysis of the DEMO WCLL blanket
S2-06	Ceyda ELDEM	Development of a One-Dimensional Safety Analysis Code for the Divertor During a Loss of Flow Accident
S2-07	Sophie BROEKERS	Operational Availability as a Bottleneck in Fusion Replication
S2-10	Sungbo MOON	Preliminary accident analysis of the LOVA for the Korean innovative fusion reactor
S2-11	Jean-François CIPARISSE	CFD simulation of a LOVA in DEMO tokamak with D/T-air reactions
S2-12	Matjaž LESKOVAR	Loss of cryostat vacuum due to large ingress of helium gas
S2-13	Xue Zhou JIN	Preliminary accident analysis of loss of flow for the European DEMO using the Helium Cooled Pebble Bed blanket concept
S2-14	Asset SHAIMERDENOV	Activation of Fusion Reactor Blanket Materials and Their Role in Radioactive Waste Management
S2-15	Anna WÓJCIK-GARGULA	Optimization of the HRNS beam dump for reduced activation and radiological impact
S2-17	Vincenzo MARCELLETTI	Qualification of ITER Equatorial Launcher Feedthroughs: Implementing an "ISO 19443 Plus" Approach for First Confinement Components
S2-18	Aurelien CHASSERY	VALOFUSION: Coupling of a Cold Crucible Induction Furnace with a Catalytic Membrane Reactor for the Detritiation of Metallic Waste