

Department of Energy Announces \$47 Million for Research on Collaborative Research on International and Domestic Spherical Tokamaks

Announcement Number: DE-FOA-0002693 and DE-FOA-0002702

List Posted: 9/30/2022

Principal Investigator	Title	Institution	City	State	9-digit zip code
Zakharov, Leonid	Understanding NBI heating and fueling in LTX-β tokamak	LiWFusion	Princeton	NJ	08540-4366
Casali, Livia	Divertor Physics and Control on the Mast-U Tokamak	The University of Tennessee	Knoxville	TN	37996-1529
Eldon, David	Divertor Heat Flux Control Design for High Heat Flux Tokamaks	General Atomics	San Diego	CA	92121-1122
Baver, Derek	Scrape-off layer stability and turbulence analysis in MAST-U	Astrodel LLC	Boulder	CO	80303-4233
Rhodes, Terry	Spherical tokamak science on LTX- b utilizing millimeter wave diagnostics	Regents of the University of California, Los Angeles	Los Angeles	CA	90095-1406
Mordijck, Saskia	Opacity and aspect ratio impact on fueling and core-edge performance	The College of William and Mary	Williamsburg	VA	23187-8795
Hughes, Jerry	Opacity and aspect ratio impact on fueling and core-edge performance	Massachusetts Institute of Technology	Cambridge	MA	02139-4307
Sabbagh, Steven	Stability Research for Disruption Prediction and Avoidance in MASTU Spherical Tokamak Plasmas	The Trustees of Columbia University in the City of New York (Morningside Campus)	New York	NY	10027-7922
Rhodes, Terry	Turbulence and transport science on MAST-U: Magnetic and density turbulence, turbulence flow, GAMs, and zonal flows	Regents of the University of California, Los Angeles	Los Angeles	CA	90095-1406
Anderson, Jay	Neutral Beam Injection and Fast Ion Physics in LTX-beta	Board of Regents of the University of Wisconsin System, operating as University of Wisconsin	Madison, WI	WI	53715-1218
Crocker, Neal	Advancing the physics basis for prediction and control of spherical tokamaks via experimental investigation of energetic ion driven instabilities and validation of simulations	Regents of the University of California, Los Angeles	Los Angeles	CA	90095-1406
Diem, Stephanie	An Integrated Study of Non-Solenoidal Startup for Spherical and	Board of Regents of the University of Wisconsin System, operating as University of Wisconsin	Madison, WI	WI	53715-1218
Koel, Bruce	Erosion, re-deposition, and recycling of Li PFCs in LTX-B	The Trustees of Princeton University	Princeton	NJ	08544-2020
Raman, Roger	Optimization of Coaxial Helicity Injection to enable high-current start-up in Solenoid-less STs	University of Washington	Seattle	WA	98195-9472
Hansen, Christopher	Reconstruction of plasma equilibrium and eddy current induced error fields in the Lithium Tokamak eXperiment-b	University of Washington	Seattle	WA	98195-9472
Osborne, Thomas	H-mode Pedestal, Integrated Modeling, and Model Validation on the MAST-U Tokamak	General Atomics	San Diego	CA	92121-1122
Leonard, Anthony	Divertor Physics and Control on the MAST-U Tokamak	General Atomics	San Diego	CA	92121-1122
Liu, Yueqiang	3D Response and Control on the MAST-U Spherical Tokamak (GACP 20017768)	General Atomics	San Diego	CA	92121-1122
Gilson, Erik	Development of Divertor Plasma Detachment Control Systems on the KSTAR Tokamak	Princeton Plasma Physics Laboratory	Princeton	NJ	08543-0451
Xu, Xueqiao	Development of Divertor Plasma Detachment Control Systems on the KSTAR Tokamak	Lawrence Livermore National Laboratory	LIVERMORE	CA	94550-0808
Eldon, David	Development of Divertor Plasma Detachment Control Systems on the KSTAR Tokamak	General Atomics	San Diego	CA	92121-1122

Brower, David	Fusion Pilot Plant and ITER Scenarios and Control	Regents of the University of California, Los Angeles	Los Angeles	CA	90095-1406
Schuster, Eugenio	Fusion Pilot Plant and ITER Scenarios and Control	Lehigh University	Bethlehem	PA	18015-3093
Xu, Xueqiao	Fusion Pilot Plant and ITER Scenarios and Control	Lawrence Livermore National Laboratory	Livermore	CA	94550-0808
Gilson, Erik	Long Pulse ITER Scenarios and Control on KSTAR	Princeton Plasma Physics Laboratory	Princeton	NJ	08543-2020
Eidietis, Nicholas	Long Pulse ITER Scenarios and Control on KSTAR	General Atomics	San Diego	CA	92121-1122
Park, Jong-Kyu	Integrated 3D-edge Long-pulse Tokamak Scenarios – Extended with Core Instability and Transport Control	Princeton Plasma Physics Laboratory	Princeton	NJ	08543-0451
Orlov, Dmitri	Integrated 3D-edge Long-pulse Tokamak Scenarios – Extended with Core Instability and Transport Control	The Regents of the University of California	La Jolla	CA	92093-0934
Kolemen, Egemen	Integrated 3D-edge Long-pulse Tokamak Scenarios – Extended	The Trustees of Princeton University	Princeton	NJ	08540-2020
Logan, Nikolas	Integrated 3D-edge Long-pulse Tokamak Scenarios – Extended with Core Instability and Transport Control	Lawrence Livermore National Laboratory	Livermore	CA	94550-0808
Lau, Cornwall	Advancing lower hybrid current drive efficiency towards long pulse control of high performance scenarios on WEST	Oak Ridge National Laboratory	Oak Ridge	TN	37831-6118
Curreli, Davide	Integrated Plasma-material Interaction Analysis Toward Long-pulse Operation in a Fully-Tungsten Tokamak	Board of Trustees of the University of Illinois	Champaign	IL	61820-7406
Donovan, David	Integrated Plasma-material Interaction Analysis Toward Long-pulse Operation in a Fully-Tungsten Tokamak	The University of Tennessee	Knoxville	TN	37996-1529
Allain, Jean Paul	Integrated Plasma-material Interaction Analysis Toward Long-pulse Operation in a Fully-Tungsten Tokamak	The Pennsylvania State University	University Park	PA	16802-7000
Diallo, Ahmed	Integrated Plasma-material Interaction Analysis Toward Long-pulse Operation in a Fully-Tungsten Tokamak	Princeton Plasma Physics Laboratory	Princeton	NJ	08543-0451
Unterberg, Ezekial	Integrated Plasma-material Interaction Analysis Toward Long-pulse Operation in a Fully-Tungsten Tokamak	Oak Ridge National Laboratory	Oak Ridge	TN	37831-6118
Levinton, Fred	Disruption Prediction and Avoidance in High Beta Long Pulse KSTAR Plasmas – Real Time Expansion	NOVA Photonics, Inc.	Princeton	NJ	08540-4701
Podesta, Mario	Disruption Prediction and Avoidance in High Beta Long Pulse KSTAR Plasmas – Real Time Expansion	Princeton Plasma Physics Laboratory	Princeton	NJ	08543-0451