

List of selected projects for Discretionary Collaborative Research Project 2025, IFS, Tohoku University (as 1st April, 2025)

Project Code	Project Title	Applicant	Institution	IFS responsible member or non-IFS responsible member	Institution
J25L039	Experiment and Molecular Dynamics Simulation for Plasma-dependent Interface	Liu Siwei	Tohoku University	Kosuke Tachibana	Oita University
J25L056	Study on the Injection Control of Carbon-free Fuels	Noritsune Kawaharada	National Traffic Safety and Environment Laboratory	Ippei Oshima	Tohoku University
J25L077	Re-interpretation of Flame Structure with Ignition Nature	Kaname Matsue	Kyushu University	Youhi Morii	Tohoku University
J25L082	Impact Compressive Deformation Behavior of Artificial Pumice for Reinforcement of Shelter against Ballistic Ejecta	Kohei Tateyama	Muroran Institute of Technology	Kiyonobu Ohtani	Tohoku University
J25L092	Density and Surface Tension Effects on Vortex Dynamics	Stefan Llewellyn Smith	University of California	Yuji Hattori	Tohoku University
J25L099	Relationship between Micro-structure of Nano-Fiber and Rheological Property in Cellulose Nano-Fiber Dispersion	Masaaki Motozawa	Shizuoka University	Hidemasa Takana	Tohoku University
J25L103	Analysis of Heat and Momentum Transport Characteristics via Water Droplets in Microchannels using Local Stress and Heat Flux	Akinori Fukushima	University of Fukui	Takashi Tokumasu	Tohoku University

7 selected projects