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Coupling full-f gyrokinetic studies to experimental measurements of the isotope effect for FT-2 tokamak plasmas

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Turbulent transport and flow dynamics in Ohmic FT-2 tokamak plasmas are investigated. Measurements utilize highly localized state-of-the-art backscattering while the turbulence simulations are performed with the global full-f nonlinear code ELMFIRE. The role of the geodesic acoustic mode in regulating turbulent transport is studied. Special emphasis is given to the isotope effect observed in tokamak anomalous transport scaling.

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Finland

Primary author: LEERINK, Susan (Aalto University)

Co-authors: Mr ALTUKHOV, Alexey (Ioffe Institute); Dr GURCHENKO, Alexey (Ioffe Institute); Prof. GUSAKOV, Evgeniy (Ioffe Physical-Technical Institute of Russian Academy of Science); Mr NISKALA, Paavo (Aalto University); Dr ROCHFORD, Ronan (Aalto University); Dr LASHKUL, Sergey (Ioffe Physical Technical Institute.); Dr KIVINIEMI, Timo (Aalto University); Mr KORPILO, Tuomas (Aalto University)

Presenter: LEERINK, Susan (Aalto University)

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