

Topic	Mixing in turbulent media
Topic is suitable for	<ul style="list-style-type: none"> • practical works of bachelor students • graduation thesis of bachelor students • practical works of master students • graduation thesis of master students
Contact	Jaan Kalda (kalda@ioc.ee)
Annotation	Turbulent mixing can be met everywhere, be it when melting sugar in a cup of tea, transport of pollution in marine environment, or formation of rain in clouds. Regardless of seeming simplicity, the problem of turbulent mixing has remained being a focal point of modern physics, because mathematically, this is an extremely complex phenomenon with many different aspects. In TalTech, this practically important problem is being studied via theoretical and numerical modelling.
Expectation for candidate	Basic skills in mathematics, statistics, and (C/C++ or Python).