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Statistic analysis of intermittency in atmospheric turbulence

Tsallis distributions [2] do offer a flexible diagnostic tool to explore questions related to intermittency and scaling of high-Reynolds-number flows in the atmosphere above transition surfaces. The training will consist in studying this theory and to estimate Tsallis parameters from turbulent time series measurements of turbulent wind velocity and temperature. The results will be applied in pollution study

REFERENCES

[1] KATUL et. al., Physica D 215 (2006) 117 - 126.

[2] TSALLIS J. Stat. Phys. 52 (1988) 479 - 487.

[3] FRISCH U. Turbulence, Cambridge UP, 1995