Is Plasma Turbulence Universal?

Universality is found in fluid turbulence



Is universality seen among different plasmas

Similar turbulent characteristics are found whether the fluid is air, water, or even liquid Helium!

The Kolmogorov turbulence model describes fluids well, but deviations are found in plasmas



such as the solar wind, fusion plasma, or SSX?







SSX magnetic turbulence exhibits steeper scaling than the Kolmogorov model predicts, unlike the solar wind

SSX is used to explore many characteristics of turbulence to compare with other plasmas and test whether universality exists across different plasma types





