

Talk at Splinter Meeting

Splinter C

THE KELVIN-HELMHOLTZ INSTABILITY AT SCHOOL

L. Bzduskova¹

University Siegen, Department of Physics, Observatory

The Kelvin-Helmholtz Instability appears on layer flows at the shear layer. When two fluids with different densities and velocities flow past each other, they will develop waves, respectively turbulent flows. The best known example of this phenomenon is the ocean wave; resulting of the air and the water moving with different velocities. A similar observation can be made in the sky, too: wavy clouds might develop through different speed of moving air layers next to each other. Even in the atmosphere of Saturn it is commonly to be observed. The presentation shows, how to build a model of the Kelvin-Helmholtz Instability for use at school.