



## Change of the effective fluctuation dimensionality in vanadium thin films in a magnetic field

N. Ya. Fogel A. S. Sidorenko

https://doi.org/10.1016/0038-1098(81)91220-5

## Abstract

Lowering of the effective fluctuation dimensionality in the critical region has been found for thin superconducting vanadium films placed in strong perpensicular magnetic fields. The effect shows itself as a change of the critical index characterizing the temperature dependence of the excess film conductivity. By varying the magnetic field, one can observe both twodimensional and zero-dimensional critical fluctuations on the same specimens.