Wolfgang Spitzer, Fern-Universität Hagen
Title: "Entanglement entropy of the ideal Fermi gas".

Abstract: In this talk, we introduce the entanglement entropy of equlibrium states of the ideal Fermi gas reduced to some bounded spatial domain $\Lambda\subset \mathbb R^d$. We present its leading asymptotic growth as $ \Lambda\nearrow\mathbb R^d$ at absolute zero temperature and at strictly positive temperature. This is joint work with Hajo Leschke and Alexander V. Sobolev.