## Lisa Beck

## Uniqueness of graphs of least gradient

In this talk we address some characteristics of minimization problems concerning variational integrals of linear growth. As a model case we study the minimization of the integral

$$
\int_{\Omega} \sqrt{1+|D w|^{2}} d x
$$

in Dirichlet classes of vector-valued functions $w$. We first discuss existence and uniqueness (up to additive constants) of generalized minimizers. We then investigate the phenomenon of non-uniqueness, which - as in the scalar case, i.e. the non-parametric least area problem - is closely related to the possible non-attainment of the boundary values.

