## Bernard DACOROGNA (EPFL)

"On the equation  $\det \nabla u = f$ "

We discuss existence of a solution  $\boldsymbol{u}$  of the Dirichlet problem

$$\begin{cases} \det \nabla u (x) = f (x) & x \in \Omega \\ u (x) = x & x \in \partial \Omega \end{cases}$$

where  $\Omega$  is a bounded smooth domain and f satisfies

$$\int_{\Omega} f = \operatorname{meas} \Omega$$

with no sign hypothesis on f.

This is a joint work with G. Cupini and O. Kneuss