

## A level-set flow by crystalline mean curvature of surfaces

Yoshikazu Giga (University of Tokyo)

Anisotropic mean curvature flow is important in materials science. If the interfacial energy is singular, the speed becomes a nonlocal quantity. For evolution of a curve it has been well-studied. Especially, a level-set flow was constructed around 15 years ago by Mi-Ho Giga and myself. However, it is quite recent that an evolution of surface by such an singular anisotropic interfacial energy, even crystalline energy. In this talk we give a way to construct a level-set flow for such a problem. This is a joint work with M.-H. Giga (Tokyo) and N. Pozar (Kanazawa).