On elasticae of clamped endpoints.

Tatsuya Miura (Univ of Tokyo)

In this talk we address a classical problem on elastic curves. The problem is formulated as the minimizing problem of the total squared curvature energy defined for planar smooth curves of fixed length and clamped endpoints, i.e., the positions and the tangential directions are fixed at the endpoints. Our main result reveals the precise shapes and properties of global minimizers as a straightening limit.