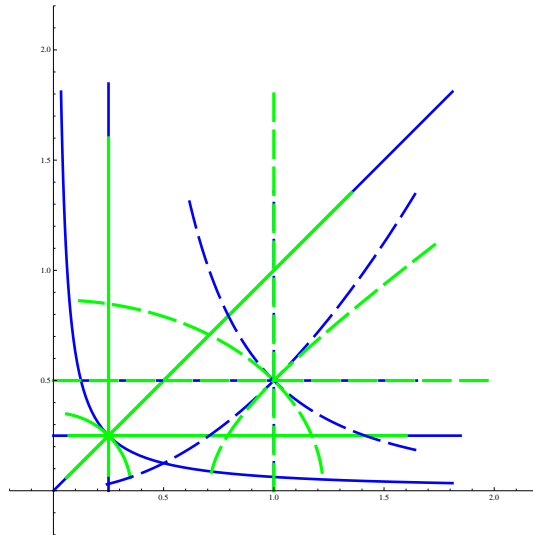


Statistical Manifolds
— hypersurfaces and complex structures
FURUHATA Hitoshi

$$\nabla_{\partial_i} \partial_j = - \sum_k \delta_{ijk} (y^k)^{-1} \partial_k, \quad \delta_{ijk} = \begin{cases} 1, & i = j = k, \\ 0, & \text{otherwise.} \end{cases}$$

Geodesics with respect to ∇ (blue) and ∇^* (green) on $((\mathbb{R}^+)^2, \langle \cdot, \cdot \rangle)$



A realization of $((\mathbb{R}^+)^2, \nabla, \langle \cdot, \cdot \rangle)$

