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STATIONARY DISCS AND HIGHER ORDER KOBAYASHI METRICS

Stationary discs are special holomorphic discs introduced by Lempert as extremal discs for the Kobayashi metric in bounded strongly convex domains. Moreover, as proved by Poletsky, the stationary condition for a disc corresponds to the Euler-Lagrange equations associated the Kobayashi metric extremal problem. Inspired by these two works, I will discuss the connections between stationary discs and Kobayashi metrics of higher order introduced by Venturini and Yu. This is joint work with Giuseppe Della Sala and Jae-Cheon Joo.
