

---

**VESTISLAV APOSTOLOV**, UQAM

*Existence and non-existence of extremal Kaehler metrics on ruled manifolds*

In this talk I will state (and explain parts of the proof) of a criterion for the existence of an extremal Kaehler metric in certain Kaehler classes on projective line bundles over a polarized manifold of constant scalar curvature. In particular, this allows one to solve the problem of existence of extremal Kaehler metrics on geometrically ruled complex surfaces.