

## **SEMINAR : Finski Siarhei : Asymptotic study of filtrations on section rings and geodesic rays of metrics**

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Abstract: For a complex projective manifold polarised by an ample line bundle, we study the asymptotic properties of submultiplicative filtrations on the associated section ring and show that these are related to the geometry at infinity of the space of Kähler metrics on the manifold. Among others, our study will allow us to give an asymptotic formula for the maximal dimension of a vector subspace of the space of holomorphic sections of high tensor powers of the polarising line bundle such that for any holomorphic section from our subspace the difference between the orders of annihilation along two fixed submanifolds lies in a given interval.