## Special Metrics in Complex Geometry Nicoletta Tardini Abstract

Since Kähler metrics are few and far between on compact complex manifolds of dimension at least three, several classes of special, possibly non-Kähler, metrics have been developed to study the geometry of these manifolds from the point of view of the Hermitian metrics they support. In this course, we will give a glimpse of several such classes of metrics, including Gauduchon, strongly Gauduchon, SKT, Hermitian-symplectic and locally conformally Kähler metrics, by presenting their properties and uses in complex geometry and deformation theory.