## VIRTUAL EAST-WEST SCV SEMINAR

June 14, 2022

## Hervé GAUSSIER Université Grenoble Alpes

## Coincidences of invariant metrics in domains of $\mathbb{C}^d$

We prove that the Kobayashi metric of a bounded strictly pseudoconvex domain in  $\mathbb{C}^d$ ,  $d \geq 2$ , is Kähler if and only if the universal cover of the domain is biholomorphic to the unit ball in  $\mathbb{C}^d$ . This result is a consequence of a more general result concerning the extension of a locally symmetric Hermitian metric, defined outside a compact set of a Stein manifold with complex dimension greater than one. This is a joint work with Andrew Zimmer.