

ON HYPERBOLICITY AND TAUTNESS MODULO AN ANALYTIC SET

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The talk is entirely based on [1].

Let X be a complex space and $H : X \times \mathbb{C}^m \rightarrow [0, \infty)$ an upper semicontinuous function such that $H(z, \lambda w) = |\lambda|H(z, w)$, $\lambda \in \mathbb{C}$. A set

$$\Omega_H(X) := \{(z, w) \in X \times \mathbb{C}^m : H(z, w) < 1\}$$

is called a *Hartogs type* domain. Let $S \subset X$ be analytic. The aim is to present how hyperbolicity and tautness of X modulo S and $\Omega_H(X)$ modulo $S \times \mathbb{C}^m$ are connected.

REFERENCES

- [1] D. D. THAI, P. J. THOMAS, N. V. TRAO, M. A. DUC, *On hyperbolicity and tautness modulo an analytic subset of Hartogs domains*, Proc. Amer. Math. Soc. **141** (2013), 3623–3631.