

## AN INTERPOLATION PROPERTY OF LOCALLY STEIN SETS

VIOREL VÂJĂITU

**Abstract:** We prove that, if  $D$  is a normal open subset of a Stein space  $X$  of pure dimension such that  $D$  is locally Stein at every point of  $\partial D \setminus X_{\text{sg}}$ , then, for every holomorphic vector bundle  $E$  over  $D$  and every discrete subset  $\Lambda$  of  $D \setminus X_{\text{sg}}$  whose set of accumulation points lies in  $\partial D \setminus X_{\text{sg}}$ , there is a holomorphic section of  $E$  over  $D$  with prescribed values on  $\Lambda$ . We apply this to the local Steinness problem and domains of holomorphy.

**2010 Mathematics Subject Classification:** 32F10.

**Key words:** Stein space, domain of holomorphy,  $\bar{\partial}$ -problem.