

A VERSION OF CARTAN'S THEOREM A FOR COHERENT SHEAVES ON REAL AFFINE VARIETIES.

Tomasz Kowalczyk
Uniwersytet Jagielloński (Kraków, Poland)

It is known that Cartan's Theorem A does not hold in the real algebraic case. Nevertheless, we established a real version of Theorem A to the effect that for any coherent sheaf \mathcal{F} on a non-singular real affine variety X there exists a multi-blowup $\sigma : \tilde{X} \rightarrow X$ such that the pullback sheaf $\sigma^*\mathcal{F}$ is generated by global sections on \tilde{X} .