

WHITNEY STRATIFICATIONS AND A VARIANT OF THE LERAY THEORY FOR SINGULAR ANALYTIC VARIETIES

MIKHAIL MAZIN
UNIVERSITY OF TORONTO

Consider a Whitney stratified space with oriented strata. For each pair of strata X and Y , such that $X < Y$ (means $X \subset \text{closure}(Y)$) and there is no stratum Z , such that $X < Z < Y$, one can construct the homomorphisms $H_i(X) \rightarrow H_{i+k-1}(Y)$, where $k = \dim Y - \dim X - 1$. I will explain the construction of Leray homomorphisms in the smooth case, give a short introduction into the Whitney stratifications, and then speak about the singular case. I will construct these homomorphisms and prove a theorem about them.