

This leads to a ss (\bar{E}^r, \bar{d}^r) with

$$\bar{E}_{p,q}^0 = \bigoplus_{j \in \Sigma(d_p)} \wedge^q E_{j,0} \quad (= \mathcal{C}(\wedge^q \Sigma))$$

$$\bar{E}_{p,q}^1 = H_p(\wedge^q \Sigma) \Rightarrow H_p(X_\Sigma(\mathbb{R}))$$

$$\sum_{\forall I} \text{rank } \bar{E}_{p,q}^1 = \sum_{\forall I} \text{rank } E_{p,q}^2$$

$$\sum b_i X_\Sigma(\mathbb{R}) \stackrel{\text{Smith-Thom inequality}}{\leq} \sum b_j X_\Sigma(\mathbb{R})$$

Thm: Δ reflexive Σ^* consists of smooth.

Then (\bar{E}^r, \bar{d}^r) collapse at \bar{E}^1 and hence X_Σ is maximal