



~> Hi(C;742) = Hn-1(C*;742). Duality with 7/2 coeffs $H_i(M; 742)$ $H^{n-1}(M; 742)$ (an ignore signs, ~ natural pairing between cell str C This proves PD for 742 coeffs. & dual C* $C_i \iff C_{n-i}^*$ Under this identification d: Ci → Ci-1 T - sum of faces. $f: C_{n-i}^* \longrightarrow C_{n-i+1}^*$

J* > Sum of dual cells of which T* is a face.

Cap product Two facts: k > l · linear in each var · natural $t: X \rightarrow A$ (a, 6) (a| [10, ..., 15]) a| [15, ..., 1x] $f^*(a) \cup \delta = f^*(a \cup f_*(\delta))$ in H* (Y) As usual, need to check this induces a map on co/homology. The required formula is: Thm (PD) M= compact n-manifold with 9(206)= (-1)x (9206-2026) orientation [M]. Then ~> cycle ~ cocycle = cycle $H_{\kappa}(W) \longrightarrow H^{u-\kappa}(W)$ cycle \(\cap\) coboundary = boundary q → [M] nq bondary \(\cocycle = bondary is an \approx .