



$$3) \bar{A}_* (S_\lambda(F.)) = \bigoplus_{\mu \leq \lambda} \pi [S_\mu(F.)]$$

$$S_\lambda = \sum_{\mu \leq \lambda} \pi_{S_\mu}, \quad c_{SM}(S_\lambda) = \sum c_{SM}(S_\lambda^\circ)$$

$$c_{SM}(S_\lambda^\circ) = \sum_{\mu \leq \lambda} c(\lambda, \mu) [S_\mu]$$

GOAL: compute $c(\lambda, \mu)$

Bott - Samelson Resolutions

$$\lambda = \begin{array}{|c|} \hline \square \\ \hline \end{array} p$$

$n-p$

$$V(\lambda) = \left\{ S_1 \subset S_2 \subset \dots \subset S_p : \begin{array}{l} \dim S_i = i \\ S_i \subset F_{\lambda_{p-i+1} + i} \end{array} \right\}$$

$$\begin{array}{ccc} \pi_\lambda \downarrow & (S_1 \subset \dots \subset S_p) & \downarrow \\ S_\lambda(F_i) & & \end{array}$$

FACTS 1) π_λ is an isom. over $S_\lambda(F.)$

$$2) (\pi_\lambda)^-1 (S_\lambda - S_\lambda^\circ) = \cup D_i \quad - \text{smc}$$

$$c_{SM}(S_\lambda^\circ) = (\pi_\lambda)_* \left| \frac{c(TV(\lambda))}{\prod (1+D_i)} n[V(\lambda)] \right|$$

$$[D_i] = X_i \in A^1(V(\lambda))$$

$$\lambda = (\lambda_1, \lambda_2) \quad p=2$$

$$(*) \frac{c(TV(\lambda))}{\prod (1+X_i)} = (1+X_1)^{\lambda_1 - \lambda_2} (1+X_2)^{\lambda_2 - 0} h_{\lambda_2}(1+X_1, X_2)$$

$$\lambda = (\lambda_1, \dots, \lambda_p) \quad (*) = \prod_{i=1}^p (1+X_i)^{\lambda_i - \lambda_{i+1}} \cdot h_{\lambda_{i+1}}(1+X_i, X_{i+1}, \dots, X_p)$$