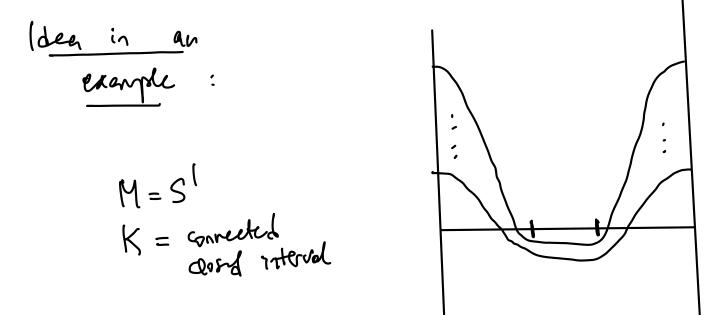
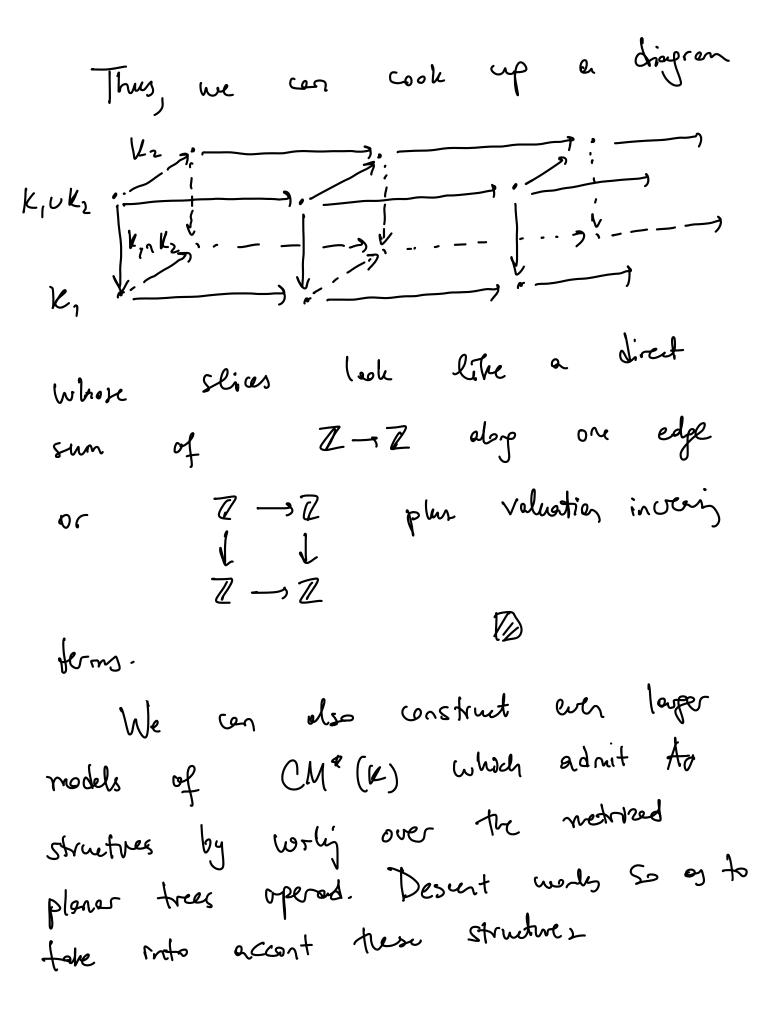
Gier a reguler honotopy (fs, Xs) between two choices  $(f_1, X_0) \& (f_1, X_1)$ , we get the continuation chain map.  $CM(f_0, X_1) \rightarrow CM(f_1, X_1)$ Important: If  $\frac{\partial f_s}{\partial s} \gtrsim 0$ , then this map is filtered i.e. valuation non-decreasing. We refer to this as the "monotonicily" of (fs, Xs). Assume that we have a family of continuation map data parametrized by a compart manifeld with corners P. Crucially, ve allow broken data. Under a regularity assumption, • ripid counts (over P) defin a map of degree - dim P • one diansional familier define a mult for the sum of the mop, defined homotopy codimension 1 faces of P. by the

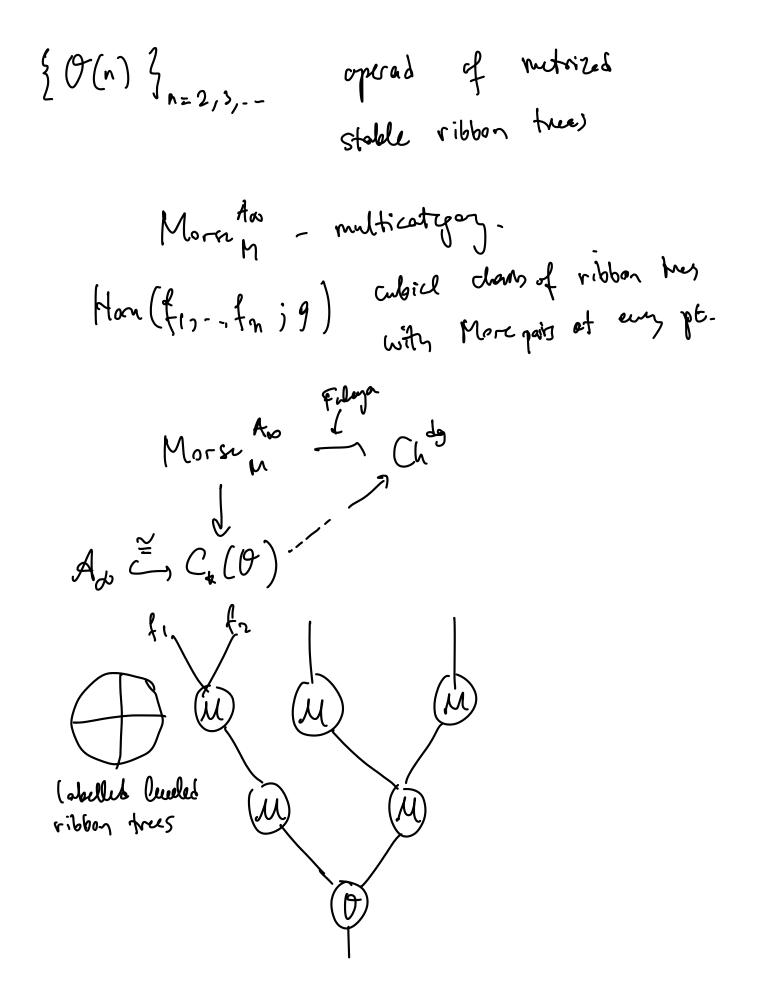
When K is closed, we can characterize  
cofinel sequences in Morten (K):  

$$f_i(x) \longrightarrow \begin{cases} 0, x \in K \\ \infty, x \in K \end{cases}$$
 of  $i - s \infty$   
 $f_i(x) \longrightarrow \begin{cases} 0, x \in K \\ \infty, x \notin K \end{cases}$  of  $i - s \infty$   
This gives a smaller telescope model  
that we can use for computations. For  
that we can use for computations. For  
the con use for computations. For  
 $t \in concomple$ , we can prove:  
 $-f_i(K) = K \subset M$  is a codimension  $0$   
 $compart submanifold with boundary (domain)$   
 $H^{*}(CM^{*}_{in}(K)) \cong H^{*}(K)$ .



 $CM(f_{1}) CM(f_{2}) CM(f_{3})$   $id \int K_{1} id \int K_{2} \int CM(f_{3}) \int CM(f_{3}) CM(f_{4}) CM(f_{3}) CM(f_{$ 





We can go thru the some procedure anj Hamiltonian Fleer complexes instead of Mark complexes. We can de open string or closed strage. The man differens 1) Locality is a much bigger issue. Assme that K is contained as a Scrain inside M and M'. The invariants of M& MI with support on K may not t be the same. (Ex: K=1D, area 1 st, area 2 area 3) 2) Desent only holds inder a Persson commutativity assumption 

