So far: (xan a) satisfying (*) 25/04/16 K, L S X lagrangian Satisfying (xx) of CF*(K, L) Pr depending on HK, L, JK, L, but cohomologically independent of Given (Lo, La, Lz) we defined (depending on more chaices, compatible with previous chaices) a chain map p2: CP*(L, L2) @ CP*(Lo, L1) -> CP*(Lo, L2) st [p2] is independent of choices. This nearly gives a "categorical composition law in H Fik (x), but is it associative? On cohomology level yes, but not on the chain level. For Lo Xon L Xn2 L2 X23 L3, on the chain level, there is no reason for p2 (x23, p2(x12, X01)) to equal p2 (p2(x23, X12), X01) But we will show that the difference p² (X23, p²(X22, X01)) - p² (p² (X23, X22), X02) x via a "geometric is all homotopy" is associative mil homotopy" We will deduce this as a special case of constructions of higher An homotopies". Let R3 denote the space of discs with 3+1=4 marked points from the boundary, made automorphisms. A representative. 20 0 22 (eg 20, 21, 23) Can be fixed at -e 3.









