\$6) EXPRAIN WHY THE LEADING CONTRIBUTION to the K-tuples cluster operator has order K-1 for K≥2. TK IS CONNECTED and Mas excitation level K. , you = D Mas ex. 18481 0 so TK CON'T CONTRIBUTE SIT OPDOP O FOR K > 2. What about order 13 W(1) = POVUE - MAX. CONNECTED - 15 2 'SO TZ NOS O FIRST OPDER LEADING CONTRIBUTION · NOW CONSIDER ON ABBITRARY WIFT, K > 1. M(K) = (KONO) + + < > Max expitation levels come from this part. When we're considerING all possible connected contributions to (ROVO)K, the Max. CONNECTED excitation level is GoINA to LOME FROM this diabrams this term is a part of Tri. Since)

Part of Tri. Since)

Level is the max.

Johnsoled excitation

Tono in (ii)

To

Ten cannot contribute at any order lower than k.

Thus the leading contribution of Ten has order to the leading contribution of Ten has leading order for k>1, or in other words Tr has leading order k-1 for k>2. Since we have already shown that To has leading order 1,

TE Mas leading of DOP K-1 FOR K>1.