mount-space mount radius = mr flange distance de=Xmr sensor circle image circle $C_r = X m_r$ lens - space lens length L=×m, $x \in \mathbb{R}$ Width of lens body not constrained (more on this later) pos14,0n-space - "positions" are space allocations where each element auld be -pn's front is Patis sach Py-positions along length we $P_h = \times L, \quad \chi \in (0, 1)$ P3 - With of allocation Wn=Xmr,XER P, position of front is B - Width of boxck is m.

lens bounding

element-Spare PiXeE Blement 1PMI Front must always be greater tran back moving element distance de (0,1) this is a small fixed position block, which on holds the lens alt: group, hut possition -Nd moving clerents - g/oups (an more - groups cannox OVEr lap (on S fros - have to Check that -more realistic elements don't overlap -allows elements to -harder to randonize (?,) have over lapping bounding boxes