⇒ embedding extends to Nx (-ε, ε) ... M. line inside Lemma if N and M are oriented men N is 2-sided. Mobins strip Corollary Seifert surfaces are 2-sided. (P:A→B mfds, x is a regular point if dPx:TxA→Tp(x)B has marked rank PEB is a regular value if 4"(P) condists of regular points. P'(P) and is a submanifold if p is a regular value Lenne JP: M-K= S'CC s.l. 1 is a regular value so P(1) is a seifert surface, and P* : H, (M-K) - H. (S') is an isomorphism. Fiber bundle: UCB, 34 general to by a Z Pray Trust knots which give such p are called fibered knots. Suppose all pes' are regular pts. $\sum_{p} = \langle p'(p) \subset M - K \rangle = \sum_{p} \sum_{p} \langle p'(p) \subset M - K \rangle$ Ehresman's Lemma if $\psi: A \to B$ is a surjective submersion of A is compact, then $\psi=$ fiber bundle/locally trivial fiberation. 9 3, is fibered, Alexander Polynomial excludes 52, 61, from being fibered. Lemma · φ: M-K → S' smooth, φ, H, (M-K) => H, (S') ([M] → [c]). Suppose 2: S'-> M-K is a smooth curve Then [7] & H. (M-K) = Z. P. ([2]) & H. (S') "[402], 402: S'-S'. 7 Å Z: de + T. E. So P. & passes that 1 w/ non-zero velocity. so [907] = #1-#1. - This is the linking # of K and 2. Det if A,B=IM (oriented) st. dimA + dimB = dimM, A+B, and AnB is finite, Accordingly, $\mathcal{E}(A_1B_1x)=\pm 1$. Let $I(A_1B)=\sum_{x\in A_1B}\mathcal{E}(A_1B_1x)$. Note $I(A_1B)=(-1)^{ab}I(B_1A)$ Corollary If ? parameterizes curve RCM-K, [R] = I(E, R)[c].

Def Suppose NCOM is a submfl of codim=1. Call N 2-sided if it how a trivial tubular n.h.