Ruk Mcz is called the Conley-Zehnder index of A. One can use this to define CZ-index of a closed Reeb croit, (with a triubsofon of the contact hyperplane field along t.

Frolly, let's briefly explan a geometric meaning of More.

(inspired by a geometric approach to define (2-index, as an interrection counting Clobated in previous semester).

Notaton.

zitem:

D:= W1,2(S',1P2m). A:= L2(S',1P2m). Trep: Self-enjoint

Fredo (D, A: Trep) = } T = Trep + K | K self-enjoint operator on A)

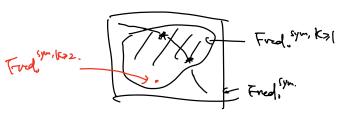
strictly speaking it should be K-2. D-24. Where 1: D -> H inclusion as a cot operation

This space is stratified, KEIN, via

Fredo (D. K. Tref) = | TE Fredom | Ker(dim T) = k} linfact, a beneath schild Prop 3.27 in [wen] =>

codin Fred, $(D, M, Trep) = \frac{K(K+1)}{2}$ (over IR)

In pasticular, for k=2, codin = 3. Therefor, for a generic pack and cts



humotopies, they will only intersect Fred syn, 1 and awid Fred syn, k22.

Define for T=T(s)cFredo that convects T_ and T+ e Fredo's T(-i) T(i)

Mspec (T) = Signed counting of parts T intersecting Fredo's m, 1

Ruk the hand part of comparting Mspec is the meetiplicities of eigenaling. In dim-2, then is a faster way via winding numbers (Section 3.5 in [how])