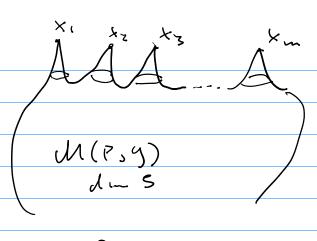
Musomupole

```
-62 +0,62 =0 => (-,-)B neg. def.
- Whlenbeck shows: given (IAJsg) & M(P,g),
  3 gl perturbation of g in & s.f.
Ptogro DA Surjects
- M(P,y) := closure of M*(P,y) in B(P)
- Donaldsone M+ (P,y) is simply connor oriented
- in this case dim M(P, y) = 8 cz(P) -3,
 and Cz(P)=1 => din h(P,y)=5
- DM:= M(P,y) - M+(P,y) = {[1]ch(P,g) | + redouble}
   => 0 E # 2 M E b =
- recall A rel => P= Q × SU(2), C((Q)=xeH2(B,2)) (x2)=-1
  -xlc(,)=6;
- 3 x ? (x2)=-1 > |det() |=1
 + y & Z bz = Z x $\overline{\pi} Z bz - 1

- tuke Z - 6asis in Z bz x = ei, -, e6z -
  => y= de, +w, we (Ze,)
      => 1=-(4,x)
                Moslice = subufil U of
                  slice s.f. Trusker Dr
```

Slice \approx $g_3 = \mathbb{R}^6 \simeq C^3/\1 = cone over \mathbb{CP}^2 - nbhd of [A] in $M \approx slice <math>\Omega M/\1



(x2) 35-1, m 662

-compact?

Thm (Uhlenbeck) P-B has Cz(P)= K>0.

Let Etylone be sque un Az(P).

Then

1)] SU(2)-p6d1 P1->13 with OS(2(P1)=ik1Sk

and ASD-conn. A'on P'

11) I pts 2, x t and nonnegative integers

m, -, m+ s, t. 2 mi= k-kl

In) Jéanc Soluzist for any opt

KCB~ {x1,-, x4}

3n x An | 1 2 (K)

10) |FAn|2 weakly converges to

[Fx1(2+8π2 = m; 8x;)

by which we mean + fee(B),

Set | FA: |2/101 → Set (|FA: (2+8772 Em: 8x;) dVol

-so, labelling Ps->B SU(z)-pbd(s or Cz(Ps)=x,

Mx:=M(Ps), Mx=[xn] == [A']=Mx × Synk-kl(B)

Mic:= Wx × Symle-x B > Mic

Mx := closure of Mx in Mx - Uhlenbeck-Donaldson optification

-M2 = M2 LI M, × L (P' LI S²P² = P⁵

-> Kobayash - Hitchia correspondence

-M2 (\$4) = \frac{SO(5)}{SO(5)} \rightarrow (541)(5+1+1)/2

-M2 (\$4) = \frac{SO(5)}{SO(5)} \rightarrow 5.4(2)

\[
\begin{align*}
\text{Conformal gp} \\
\rightarrow \text{T (conf. Inv on \$2^2\$)}
\end{align*}