<u>lectues</u> Explicit examples.

1) Postkie Scolor curetur.

Croshe circothe.

Key funda Da Da = Da Da = Pa Pa D + 2 Pa (Fait) D+ 25 D (+)

In fered, S cliffed burdle. Then D2s= 2\*75+05

Clitical burdle. Th

30th order operator.

Proof Fix frame Peier=0.

DS=[eileis. etp Dcomphille => D'S=[eileis] = Ieje; Palis = id e:2=-1 e:ez=-lze:

= - I Dis + I eyei(ODi-ViD)s.

O\* The Grenix Hut: show Of = - + VAX.

The If IX pe admits a metric of partie solor curetie => SWX =0.

Prosf let's lade at the inputurbed epishes. Integrate ((\*), \$\overline{Q}\$).

DATE=0=)= ( ( ) =

= || \( \Pa\) \( \Dell\_{L^2} + \frac{1}{4} \Bell\_{L^4} + \frac{1}{4} \Septencise. \( \frac{1}{4} \Septencise. \) = \( \Dell\_{L^2} + \frac{1}{4} \Bell\_{L^4} + \frac{1}{4} \Septencise. \( \Dell\_{L^2} \) = \( \Dell\_{L^2} + \frac{1}{4} \Bell\_{L^4} + \frac{1}{4} \Septencise. \( \Dell\_{L^2} \) = \( \Dell\_{L^2} \).

3 so irreducible solutions.

Chede the one estimate still holds if we perturb with W sull (compared to S).

2) Kähler naufolds "Kobayashi-Hithih correspondence": on a Köhler neuflet - (X, J) complex mentilol Legange theoretic & conflex feometry 1 + symplechic from a Them If X is K\(\text{chler}\), SW\(\text{K}\(\text{X}\)=1. \(\text{is Rienamin not}\)

If X is wind flewed type => SW(5)=0 fr 57±KX. \(\text{E-1}\) any \(\text{p-perfice}\) \(\text{S-1}\) In Jewed X, Jilk & Jilk & Jilk & Jilk & Spin's shuther inc less. Rome From the principal bundle viewpoint, this is beaux there exists notired Embedolf U(n) - Spin (2n). We can write this very explicitly, Heady  $\Omega \otimes \mathbb{C}$  ,  $\Omega \otimes \mathbb{C} = \Omega' \otimes \Omega''$   $\Omega \otimes \mathbb{C} = \Omega^2 \otimes \Omega' \otimes \Omega''$   $\Omega \otimes \mathbb{C} = \Omega^2 \otimes \Omega' \otimes \Omega'' \otimes \Omega''$ ₩V (din\_ nde) = 5∑( v n n a, - naet v 2 di - de). T80 T10 2701 Dirac spector is just & = 5t -> 5  $\mathcal{T}(\widehat{\mathfrak{d}} - \widehat{\mathfrak{t}}^*)$ :  $\mathcal{N} = \mathcal{N}^{0,0} \rightarrow \mathcal{N}^{0,0}$ . 3) Sept-distity als interests well with the tookber shuther.

N'ac = n' & n'' & n',2  $\Omega^2 \otimes C = \Omega^{\dagger} \oplus \Omega^{\dagger}$ .  $\omega = \frac{1}{2}(dz_1 dz_1 + dz_2 dz_1)$ . St(iR) are of the fin if cu+, u-, i fel(x; \(\mathbb{R}\))

1 \(\epsilon\). Fact FAt = 0 => At deleuses a hobusphic sheether or detST). rtepoblite, theren. 3) Symplochic noutdos Thun X symplectic bit >2 => 5Ux(Kx)=+1. (+ consherits of s with Sux(s)+0). Idea w is lookly dx rdx rdx rdx adx => can fed make such that is self-dust.

| 2p(Fat - 4ωt) = ΦΦ\*

Use large perturbation 4ωt

= Fat of two

Sine confilly usen
Ato.

For I cape except, coin fled there exists only are selection.