What is the Analyse Decomposition?  
Theodog tensors 23,2000 201000  
The left E. F. be smooth vector bundle  
of rank k over a smooth oriented  
Rights particle decompart M  
Analyse E and F lave metrics  
The left P: 
$$C^{-}(E) \rightarrow C^{-}(E)$$
 be and sections  
the left particle defined opporton.  
Then Kov(P)  $\subset C^{-}(E)$  is finite-dim  
and  $C^{-}(E) = ker(P) \odot Im(P^{-1})$   
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(What is a PDO?  
3) What is a PDO?  
3) What is the franch adjoint?  
 $\cong Ci: \Omega^{+}(M) \rightarrow \Omega^{+}(M)$   
 $\Delta = dS + Sd = (d+S)^{+}$  where  $S = Ci^{+} d^{+} d^{+}$   
 $= ci^{+} d^{+} d^{+}$  ( $M = C^{-}(C)^{+} d^{+} d^{+}$   
 $= ci^{+} d^{+} d^{+}$  ( $M = C^{-}(C)^{+} d^{+} d^{+}$   
 $= ci^{+} d^{+} d^{+}$  ( $M = C^{-}(C)^{+} d^{+} d^{+}$ 

then we my that P is elliptic.  
ex compute the symbol in local coordinates 
$$: \sigma_{d}(3) = -7\pi\pi$$
  
and  $\sigma_{1}(3) = -(1 - 1 - 1)^{2} \approx = -111^{2}\pi$   
 $\sigma_{d}(3) = -1131^{2}T is involute in hermon  $3\pi \neq 0$   
so  $\Delta$  is elliptic  
Lef Found deliptic  
 $p^{-1} \in C^{\infty}(F) \rightarrow C^{\infty}(F)$  is a PDO defined by  
 $CP^{\mu}, \beta \geq_{1} = < \alpha, P^{\mu} \beta \geq_{2}$   $b^{\mu} \in C^{\infty}(F)$   
 $f^{\mu} = \int_{0}^{1} \sigma_{1} \pi^{\mu} \beta = \int_{0}^{1} \sigma_{1} \pi^{\mu}$$