and the theory was nowhere to be seen...
it must be found!

fields $\longleftrightarrow$ differential forms $\Omega^k$

Boson $\longleftrightarrow$ $\Omega^{2n}$, $a\wedge b = b\wedge a$

fermion $\longleftrightarrow$ $\Omega^{2n+1}$, $a\wedge b = -b\wedge a$

$\mathcal{N}=1$: $d: \Omega^{2n} \to \Omega^{2n+1}$

Riemanian geo

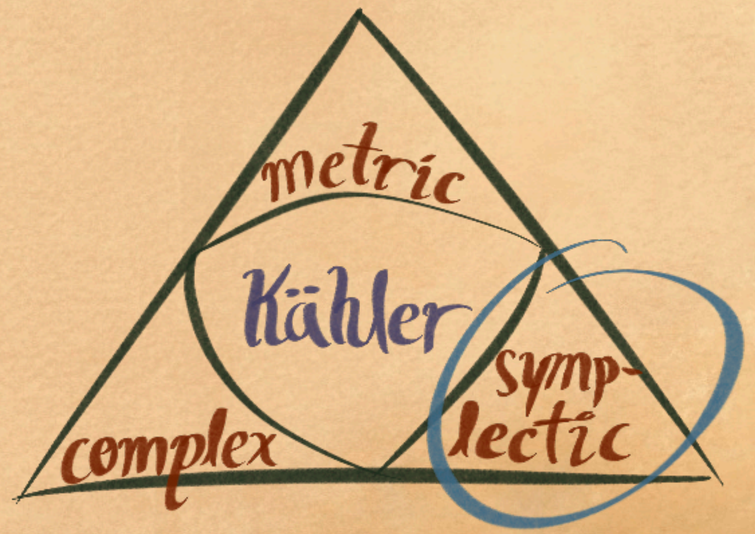
holomorphic

$$d = \partial + \bar{\partial}$$

anti holomorphic

$\mathcal{N}=2$: $\partial: \Omega^{p,q} \to \Omega^{p+1,q}$, $\bar{\partial}: \Omega^{p,q} \to \Omega^{p,q+1}$

Kähler geo




# Chapter 2

## a fishy situation