

But they were too greedy
Supersymmetry!

anticommuting partners to fields

$\mathcal{N}=2$ Supersymmetry
Generators

thus evoking...

The Dark Magic,
of integrable
systems



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

fields \longleftrightarrow differential forms Ω^k

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

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

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

Riemannian geo

holomorphic

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

anti holomorphic

$$\mathcal{N}^= = 2 \circ \begin{cases} \partial \circ \Omega^{p,q} \rightarrow \Omega^{p+1,q} \\ \bar{\partial} \circ \Omega^{p,q} \rightarrow \Omega^{p,q+1} \end{cases}$$

Kähler geo

