

Dylan's talk

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4-manifold $W \Rightarrow$ numerical invariant,
Donaldson, S-W, H-F.

3-manifold $Y \Rightarrow HF^*(Y)$ a graded v.s.
More or less a TQFT. } Really:
 HF^+, HF^-, HF^+

Parametrized surface $F^2 \Rightarrow$ DGA $A(F)$ Heegaard
Link
 $\partial Y^3 = F^2 \Rightarrow$ diff module $CF(\mathcal{L})$
over $A(F)$, invariant
up to derived equiv.

$Y_1 \cup_F Y_2$ } $CF(H_1 \cup H_2) \cong$
Given by $H_1 \cup H_2$ $CF(H_1) \otimes_A CF(H_2)$

(really,
an A_∞ module over $A(F)$, which is an ordinary algebra. } $CF(A(H_1) \otimes CF(D(H_2)))$
Interaction with bndry is encoded in the Algebra Int. ...
in the Differential.