

$X$  real analytic manifold

$T^*X$

Coarse geometry

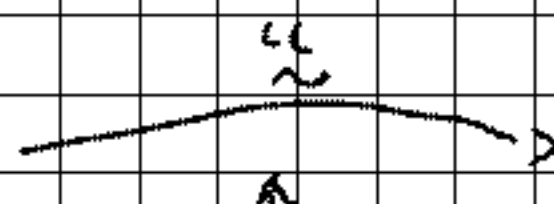
$\mathcal{S}$  stratification  
 $= \{X_\alpha\}_{\alpha \in A}$

$\Lambda$  conical Lagrangian

"  
 $\coprod_{\alpha \in A} T^*_{X_\alpha} X$

Linearisation

$CF_{\mathcal{S}}(X)$   
 $\mathcal{S}$ -const. functions



$L^+_{\Lambda}(T^*X)$

$\Lambda$ -supported conical Lag. cycles

preserves pairing

Categorification

$D^b_{\mathcal{S}}(X)$   
 dg cat of  $\mathcal{S}$ -const. complexes



$D^b_{\Lambda} \text{Fuk}(T^*X)$   
 $A_{\infty}$  cat

To get from  $D^b \text{Fuk}$  to  $L^+_{\Lambda}(T^*X)$ , you do the same sort of "conicalisation" procedure as we did for D-modules: dilate and take the stable part.

Today's talks:

$$\textcircled{1} \quad D^b_{\mathcal{S}}(X) \xleftarrow{\text{generated}} \text{Mor}_{\mathcal{S}}(X) \xrightarrow{\textcircled{3}} D^b \text{Fuk}_{\Lambda}(T^*X)$$

$\textcircled{2}$  Fukaya cat. for exact targets - compact Lag. branes

$\textcircled{3}$  Noncompact branes, construct  $\mu: D^b_{\mathcal{S}} \xrightarrow{\sim} D^b \text{Fuk}_{\Lambda}(T^*X)$

$\textcircled{4}$   $\mu$  is an equivalence