

# DOGS - Q & A

$\sigma$  Bridgeland stab. cond.

$\mathcal{Z}: K(\mathcal{T}) \longrightarrow \mathbb{C}$   
 choice of stab on a heart of  $\mathcal{T} \rightarrow$  choice of stab on  $\mathcal{T}$   
 choice of heart  $\rightarrow$  choice of slicing

$$A = \varphi_{\sigma}^{-1}([0, 1]) = \text{Coh}(\text{curve})$$

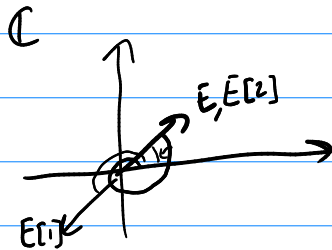
$\mathcal{T} = D^b(\text{curve})$

$\sigma = \text{Mumford stability}$

$$\mu = \frac{\text{degree}}{\text{rank}}$$

$\mathcal{Z}(A) \subseteq \text{upper half plane}$

$$\mathcal{Z} = -\text{deg} + i \text{rank}$$



$$\mathcal{T} \supset \Phi$$

$E$  is  $\mu$ -stable  
 when  $0 \neq F \subsetneq E$

$$\mu(F) < \mu(E)$$

$$\mathcal{Z}(\dots) = -e^{i\theta} \varphi(E)$$

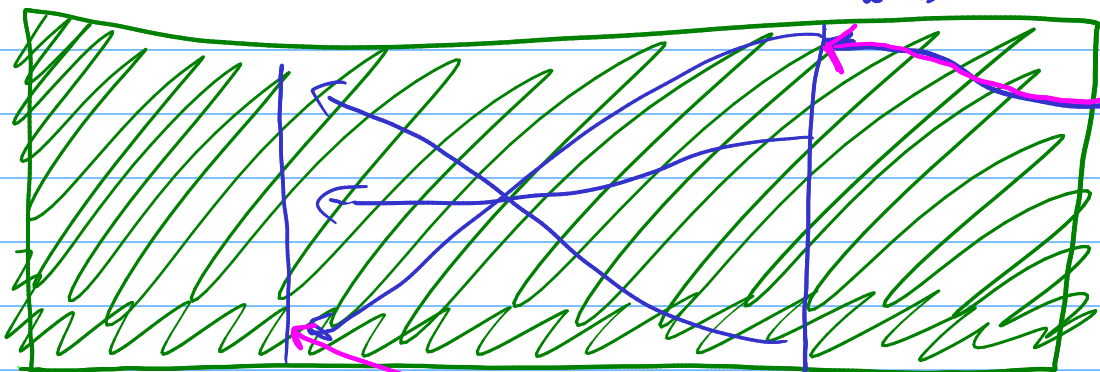
$$\arg(\mathcal{Z}(F)) < \arg(\mathcal{Z}(E))$$

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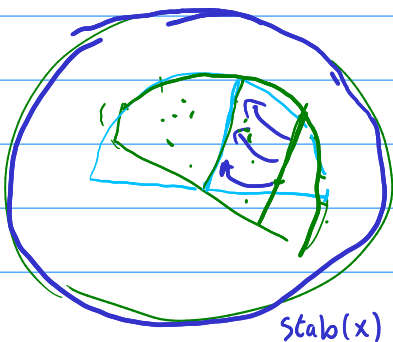
$$\Phi\sigma \text{ given by } \mathcal{Z}_{\Phi\sigma}(a) = \mathcal{Z}_{\sigma}(\Phi^{-1}(a))$$

$a$  is  $\sigma$  stable for

(then  $\Phi(a)$ )



$\{z \in \mathbb{C} : \text{Im}(z) > 0\} =$   
 parametrizes  
 Geom stab  
 conditions  
 on proj.  
 surfaces  
 Picard rank 1

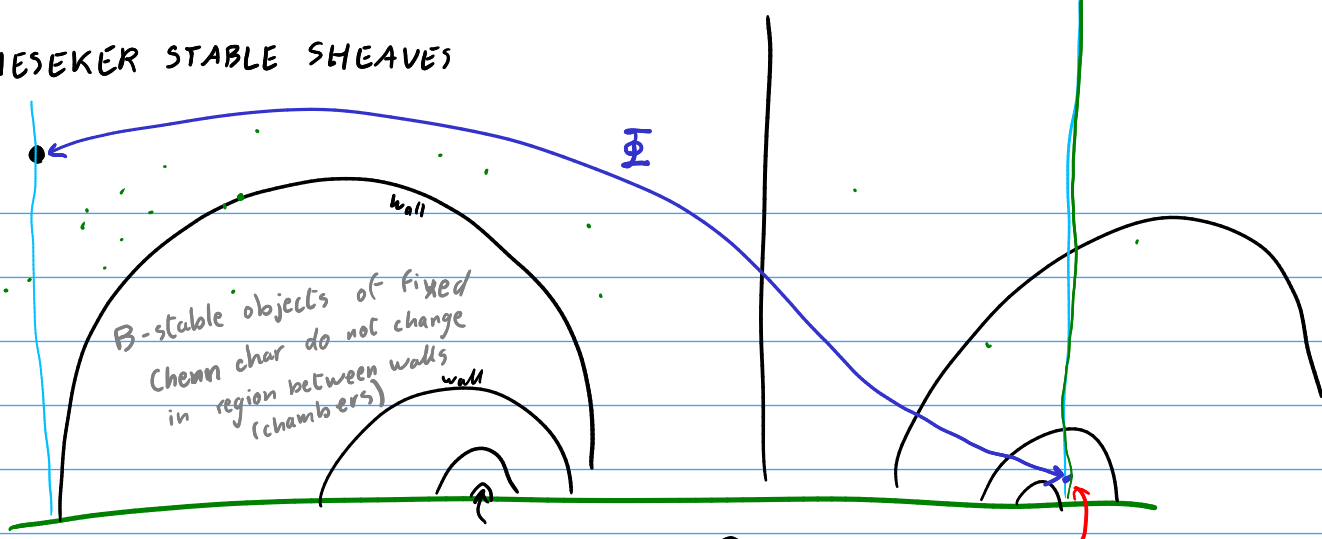


geometric stab

$$\triangleleft \Phi$$

$$\triangleleft = \Phi(\triangleleft)$$

# GIESEKER STABLE SHEAVES



$\mathcal{M}$   
 $\text{Stab}(D^b(X))$

can relate B-stable objects here to Gieseker-stable sheaves

Mumford stability on Curves is a Bridgeland stability:

