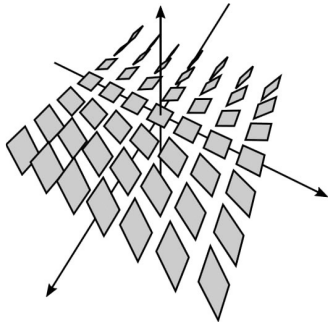# Eric Stemhede

University of Vienna

Contact structure:

$\xi \subseteq TM$ plane field

$\xi = \ker \alpha$, $\alpha \in \Omega^1(M)$
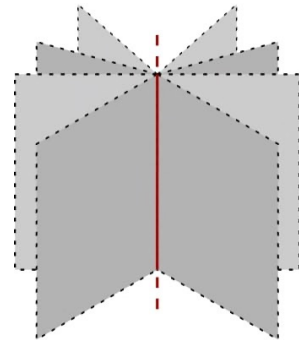
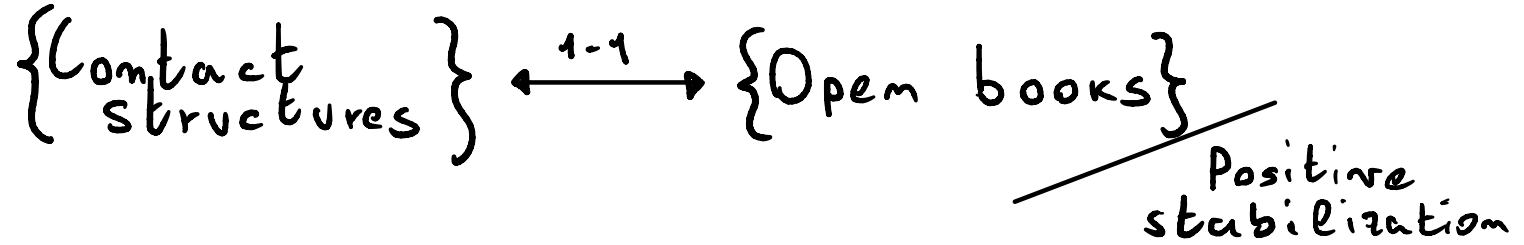$\quad \alpha \wedge d\alpha > 0$.

Open book:

· $L \subseteq M$ a link

· $M \setminus L \xrightarrow{\pi} S^1$ a fibration,

$\pi^{-1}(t)$ Seifert surface for L.

Thm (Giroux)

$$\{\text{Contact structures}\} \xleftrightarrow{\;1\text{-}1\;} \{\text{Open books}\} \Big/ \text{Positive stabilization}$$

- Estimate contact structures invariants coming from open books
- Relation between these invariants and Giroux Torsion?
- Equivalences of Legendrian surgery presentations