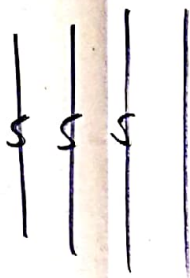


V19

$\pi^*$

$\pi^*$

$\mathcal{M}$



$\mathcal{M}$

$s^*$

$a \in \overline{T \setminus \emptyset}$

$V(1)$

$K: M \rightarrow M^*$

$(-V_u, A)$

$(-V, 0)$

SP. REL.

$\mathcal{M}$

$u \in V(1)$

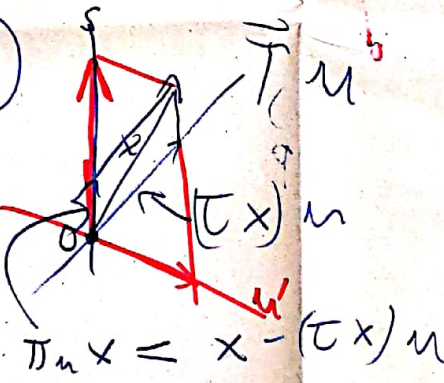
$x \mapsto -u \cdot x$

$(-u, k)$

$\mathcal{M}$

$i^*: M^* \rightarrow S^*$   
 $i^* k = k|_S$

$\mathcal{M}$



$\gamma_m = (\tau, \pi_m): M \rightarrow T \times S$

$\eta_m = (\gamma_m^{-1})^*: M^* \rightarrow T^* \times S^*$

$\eta_m k = (u k, k|_S)$

V19

120

①

1 0  
1  
x x  
1  
0 1

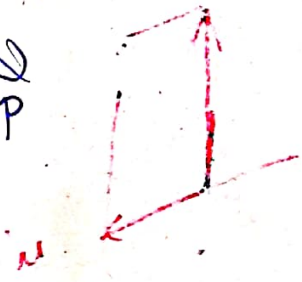
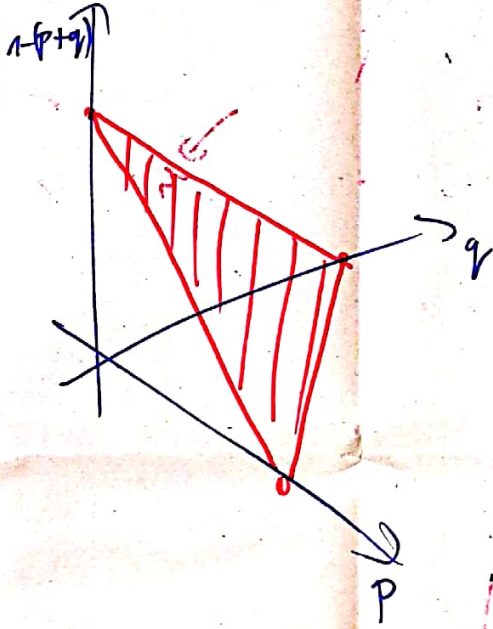
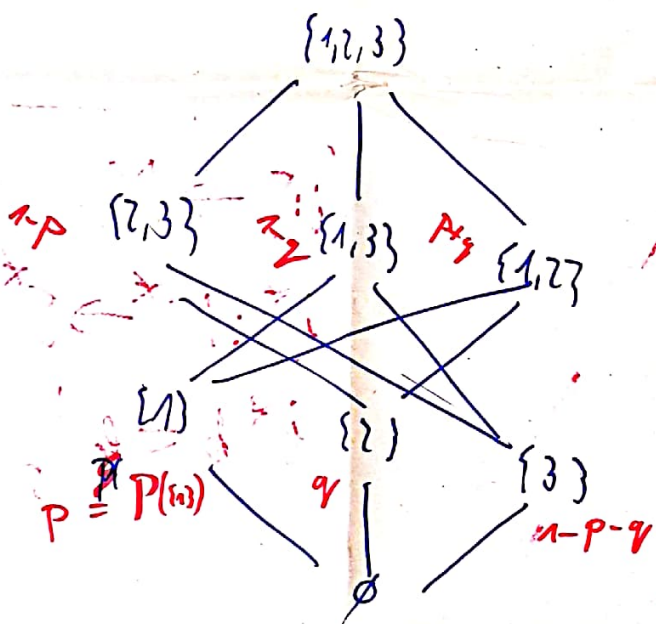
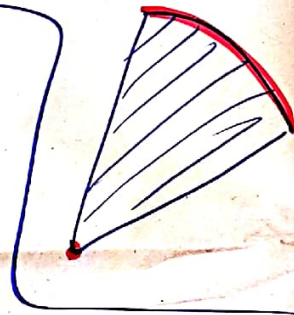
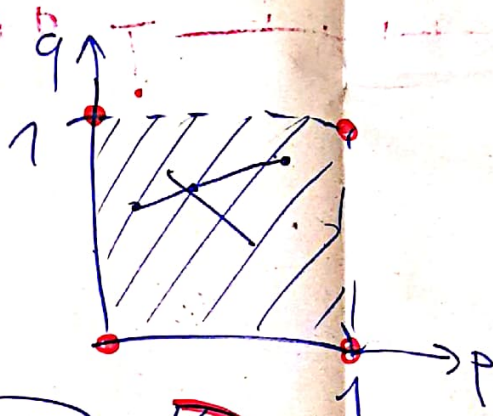
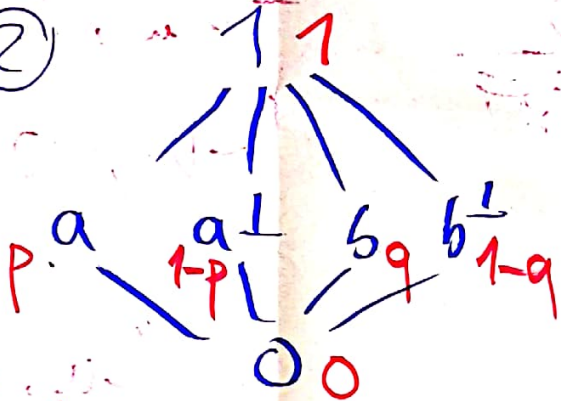
$$1^\perp = 0$$

$$0^\perp = 1$$

$$x^\perp = x$$

$$x^\perp \wedge x = 0$$

②





V2.1

$$p: \mathcal{L} \rightarrow [0,1] \quad \cdot \quad p(1) = 1$$

$$\cdot \quad a_n \vee b_n \in \mathcal{L} \quad a_n \leq a_m$$

$$p\left(\bigvee_{n \in \mathbb{N}} a_n\right) = \sum_{n \in \mathbb{N}} p(a_n)$$

$$\text{KöV: } p(0) = 0$$

$$a \leq b \Rightarrow p(a) \leq p(b) \leftarrow$$

$$\text{O.H. } \downarrow b = a \vee (b \wedge a^\perp)$$

$$p(b) = p(a) + p(b \wedge a^\perp)$$

$$a \perp (b \wedge a^\perp)$$

$$b \wedge a = b \wedge (a \vee a^\perp) = (b \wedge a) \vee (b \wedge a^\perp)$$

$$A \leq x \mid \rightarrow \mathcal{L} \rightarrow \mathcal{L}$$

$$\langle x \mid A \rangle = \langle x \mid$$

$$f: X \rightarrow Y$$

$$\text{Graph } f = \{ (x, f(x)) \mid x \in X \}$$

$$\text{Graph } f \rightarrow A^x x := z$$

$$A: \mathcal{D}(A) \rightarrow \mathcal{H}$$

$$\text{Graph } A = \{ (x, Ax) \mid x \in \mathcal{D}(A) \} \subseteq \mathcal{D}(A) \times \mathcal{H}$$

$$\text{ha Graph } A \text{ zst} \Leftrightarrow A \text{ zst}$$

$$\text{ha } \overline{\text{Graph } A} = \text{Graph } B$$

$$B \text{ Abertzi } B = \overline{A}$$

$$\text{1) Riesz } \mathcal{H} \rightarrow \mathbb{C} \text{ fgt. lin. } \langle \cdot, \cdot \rangle$$

$$\text{2) fgt. ones}$$

$$B: \mathcal{D}(B) \rightarrow \mathbb{C}$$

$$\mathcal{D}(B) \subseteq \mathcal{H} \text{ "u"}$$

$$x \in \mathcal{H}$$

$$(a_n)_{n \in \mathbb{N}}$$

$$a_n \in \mathcal{D}(B)$$

$$x = \lim_n a_n$$

$$B(\lim_n a_n) := \lim_{n \rightarrow \infty} B(a_n)$$

$$A: \mathcal{D}(A) \rightarrow \mathcal{H} \text{ lin.}$$

$$\text{Satz}$$

$$\mathcal{D}(A^*) = \{ x \in \mathcal{H} \mid \mathcal{D}(A) \rightarrow \mathcal{H} \}$$

$$\langle \cdot, \cdot \rangle$$

$$\langle \cdot, \cdot \rangle$$

$$\langle x, Ay \rangle \text{ fgt. f.}$$

V22

Riesz\*  $\ell: H \rightarrow \mathbb{C}$  folyt. konjugált lin. le.

$$\exists x \in H, \text{ hogy } \ell = \langle \cdot, x \rangle$$

$$P \leadsto \mu_{\psi, \psi}^P(E) = \int \langle \psi | P(E) \psi \rangle d\mathbb{P}, f: S \rightarrow \mathbb{C}$$

$$D_f := \{ \psi \in H \mid f \in L^2(\mu_{\psi, \psi}^P) \} \subset H \text{ s\u00fcr\u00fcn lin. alt\u00e9}$$

$$H \times D_f \rightarrow \mathbb{C}, (\psi, \varphi) \mapsto \int f d\mu_{\psi, \varphi}^P$$

r\u00e9g\u00e9ltett  $\varphi \mapsto \int f d\mu_{\psi, \varphi}^P$   
 $\psi \mapsto \int f d\mu_{\psi, \psi}^P$   
 konj. lin. + folytonos

$$\Rightarrow B\psi \in H$$

$$\rho \mapsto B\psi \text{ lin.}$$

$$\tilde{P}(f)\psi = B\psi$$

$$\int f dP = \tilde{P}(f): D_f \rightarrow H$$

$$\langle \psi | B\psi \rangle = \int f d\mu_{\psi, \psi}^P$$

$$L: \ell^2 \rightarrow \ell^2 (a_0, a_1, \dots) \mapsto (a_1, a_2, \dots)$$

$$\lambda \in \mathbb{C}$$

$$La = \lambda a$$

$$(a_1, a_2, a_3, \dots) = (\lambda a_0, \lambda a_1, \dots)$$

$$a_1 = \lambda a_0$$

$$a_2 = \lambda a_1$$

$$(a_0, a_1, a_2, \dots) = (a_0, \lambda a_0, \lambda^2 a_0, \dots)$$

$$Erg L = \{ \lambda \mid |\lambda| < 1 \}$$

$$\sum_{n \in \mathbb{N}} |a_n|^2 = |a_0|^2 \sum_{n \in \mathbb{N}} (\lambda^n)^2 = \frac{1}{1 - \lambda^2}$$

$$|\lambda| < 1$$

