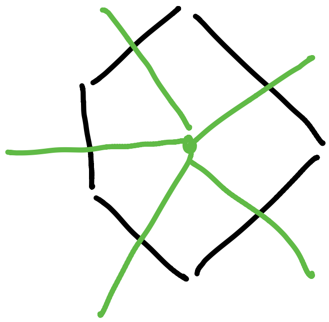


$\downarrow \vec{v}$

$\Delta : P \longrightarrow P \times P$

$\beta : P \times P \longrightarrow P$

$(x,y) \longmapsto \frac{x+y}{2}$

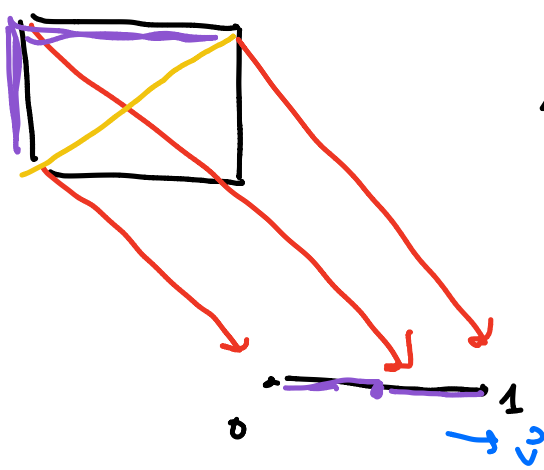
$\langle \ , \vec{v} \rangle$

$\langle x-y , \vec{v} \rangle$

$\langle \ , \vec{v} \rangle : P \times P \longrightarrow \mathbb{R}$

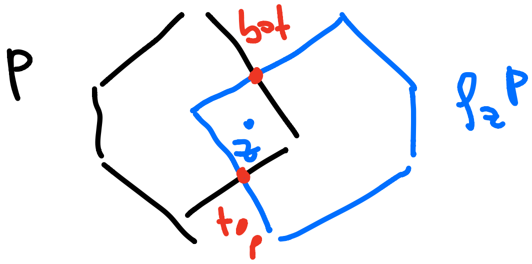
$(x,y) \longmapsto \langle x-y, \vec{v} \rangle$

tight coh. subdivision $\Longleftrightarrow$! section

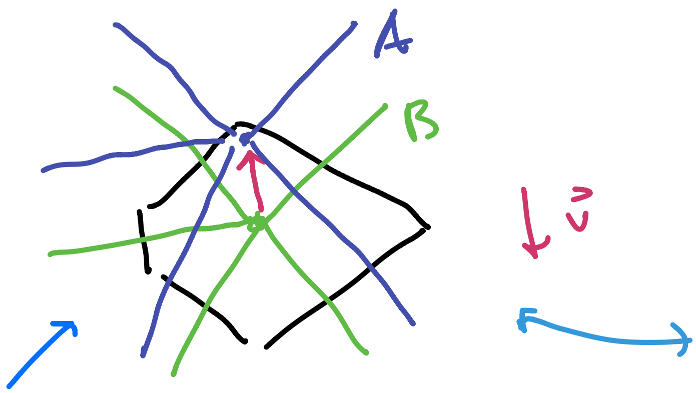


$\Delta : P \longrightarrow P \times P$

$z \longmapsto (\mathrm{bot}_{\vec{v}} P \cap g_z P, \mathrm{top}_{\vec{v}} P \cap g_z P)$



⚠ $P \cap f_z P$ doit être orienté par $\vec{v}$



$\Delta : P \to P \times P$

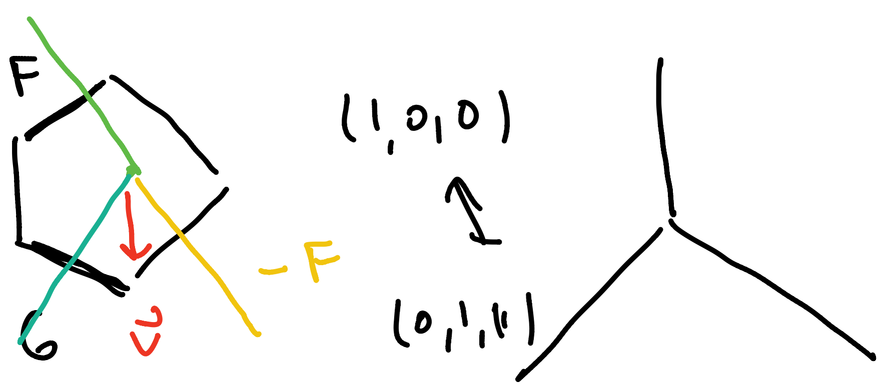
$\downarrow$

$C^\bullet(P) \otimes C^\bullet(P) \to C^\bullet(P)$

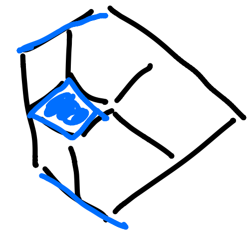
$(F, G) \in \operatorname{Im} \Delta$

$\Updownarrow$

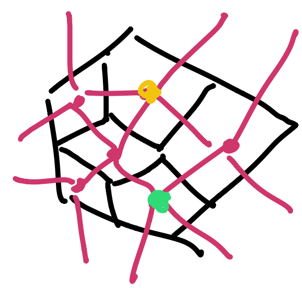
$\vec{v} \in$ Cône$\left(-\text{rayons de } F \cup \text{rayons de } G\right)$

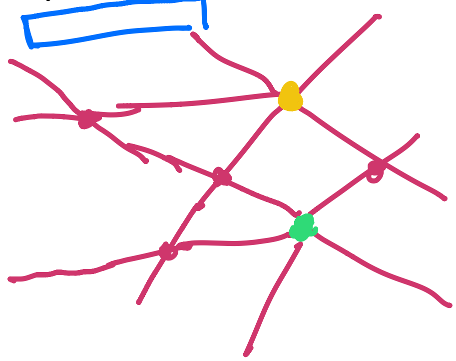


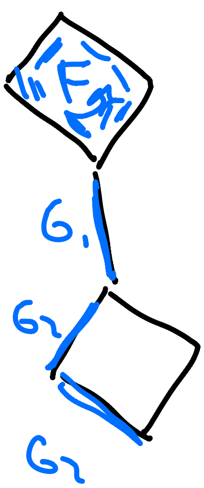
tout <u>modulo</u> $(1,1,1)$.



$$\operatorname{Im} \Delta_n : \bigcup_{\substack{F,G \\ \dim F + \dim G = \dim P \\ \operatorname{top} F \leq \operatorname{bot} G}} F \times G$$







$\operatorname{top} F \leq \operatorname{bot} G$

$\Updownarrow$

$\exists$ combilinéaire > 0

$$\left\{ \begin{array}{c} \text{vecteurs} \\ \text{normaux de } F \end{array} \right\} + \left\{ \begin{array}{c} \text{opposés des} \\ \text{vecteurs} \\ \text{normaux de } G \end{array} \right\} = \vec{v}$$

coord. décroissantes