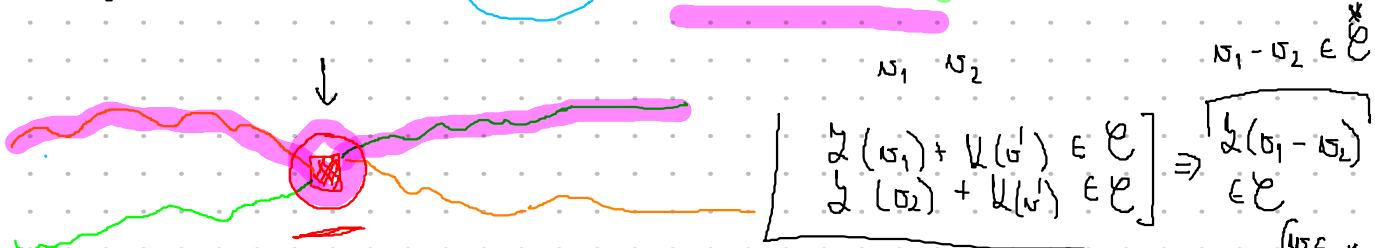


$$S_c : \text{---} \mapsto \{ v' \in \mathcal{C} \mid z(v) + k(v') \in \mathcal{C} \}$$



$$e^* = S_c(0) = \{ v' \in \mathcal{C} \mid \nexists z(v') \in \mathcal{C} \} \quad \left| \quad \begin{array}{l} z(v_1) = v_1 + e^* \\ v_1 + v_2 \in S_c(v_1) \end{array} \right.$$



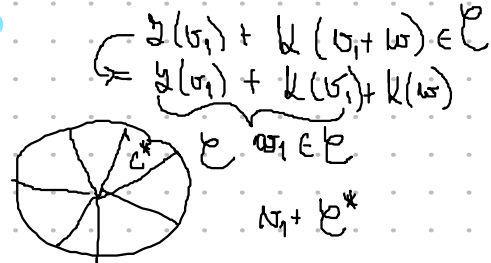
$$\mathcal{C} / \mathcal{C}^* ?$$

mod \mathbb{F}

$$\mathcal{C} \rightarrow \mathcal{C} / \mathcal{C}^*$$

\mathcal{C}^* podprostor \mathcal{C}
 $S_c(v) = v + \mathcal{C}^*$

$$S_c(v_1) \cap S_c(v_2) = (v_1 - v_2) + \mathcal{C}^*$$



$$S_c(v) = [v]_{\mathcal{C}^*} = v + \mathcal{C}^*$$

$$\Sigma_{\mathcal{C}} := \mathcal{C} / \mathcal{C}^* \quad \text{ABS. STAVY } \mathcal{C}$$



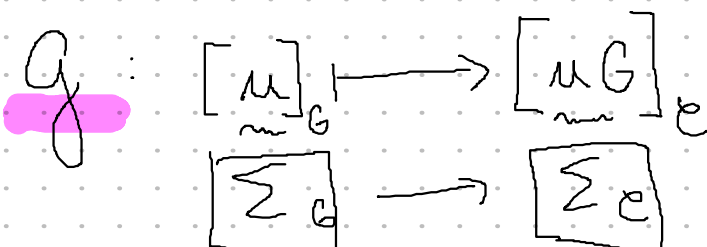
nejmenší možný počet stavů
 pro jednoduché dělovač

DEF: G je minimalní

$$|\Sigma_G| = |\Sigma_{\mathcal{C}}|$$

p. b.

g je proste



$$[u] + [v] \ominus [u+v] \longmapsto [(u+v)G] = [uG + vG] \ominus [uG] + [vG]$$

$$\begin{pmatrix} [u_1] \\ \# \\ [u_2] \end{pmatrix} \longmapsto \begin{pmatrix} [u_1 G] \\ \parallel ? \\ [u_2 G] \end{pmatrix}$$

$$[u_1] = [u_2] \quad [u_1] = u_1 + S_G^* \quad S_G^* = \{ \omega \mid \Re(\mathcal{L}(\omega)G) = 0 \}$$

$$\underbrace{u_1 - u_2}_{\omega} \in S_G^* \quad \underbrace{\Re(\mathcal{L}(\omega)(u_1 - u_2)G)}_{\omega} = 0 //$$

$$\forall \omega \in \mathbb{F}[\mathcal{D}]$$

$$\downarrow$$

$$uG \in \mathbb{F}[\mathcal{D}]$$

G REALIZOVATELNÁ!

$$\underbrace{u_1 G - u_2 G}_{\in \mathcal{E}^*} = (\omega G) = \mathcal{L}(\omega)G + \mathcal{L}(\omega)G$$

$$\Re(-||-||) = \underbrace{\Re(\mathcal{L}(\omega)G)}_0 + \underbrace{\Re'(\mathcal{L}(\omega)G)}_{\parallel \mathcal{L}(\omega)G \in \mathcal{E} //}$$

$$\Re(uG) \in \mathcal{E}$$

$$\underline{uG} \notin \mathcal{E}^*$$

$$[u_1] = [u_2]$$