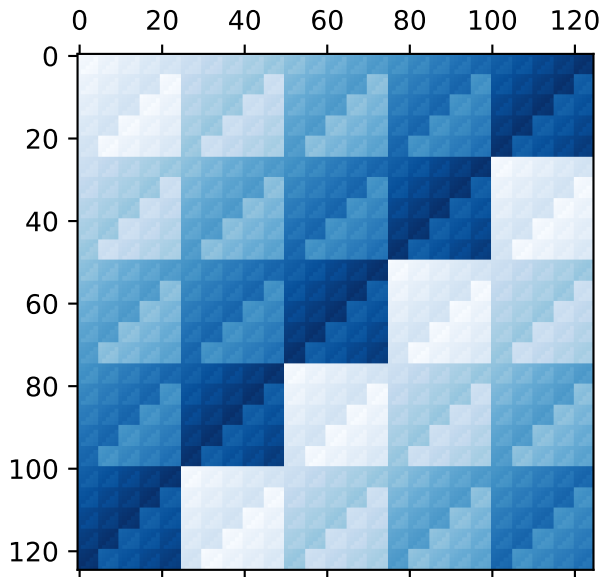


$$F_{125} = F_{5^3} \cong \mathbb{Z}_5[x]/(1+x+x^3) = \langle 4+x \rangle$$

$$(F_{125}, +) \cong C_5^3$$



$$(F_{125} \setminus \{0\}, *) \cong C_{124}$$

