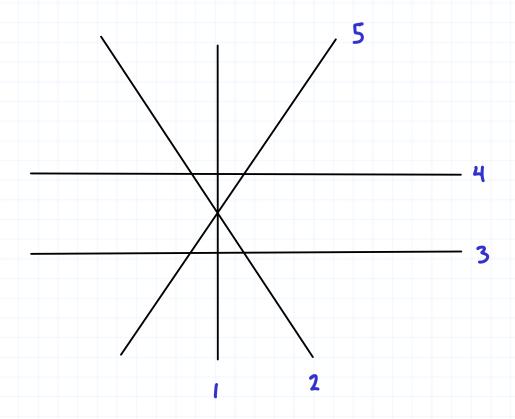


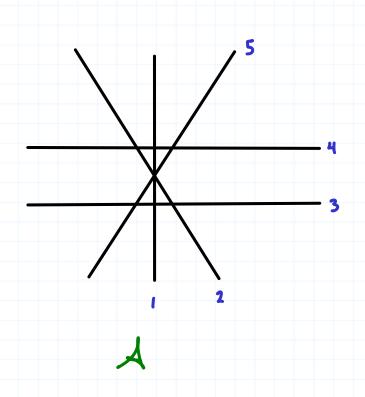
Sage Edu 5

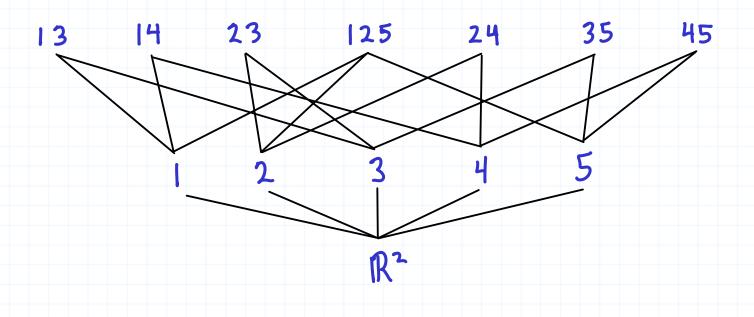
David Perkinson Reed College 6/20/13

- · Math 211-212: Multivariable Calculus
- · Math 341: Geometry

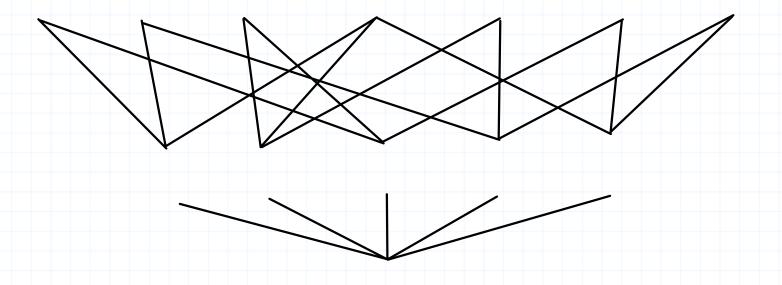


A: hyperplane arrangement

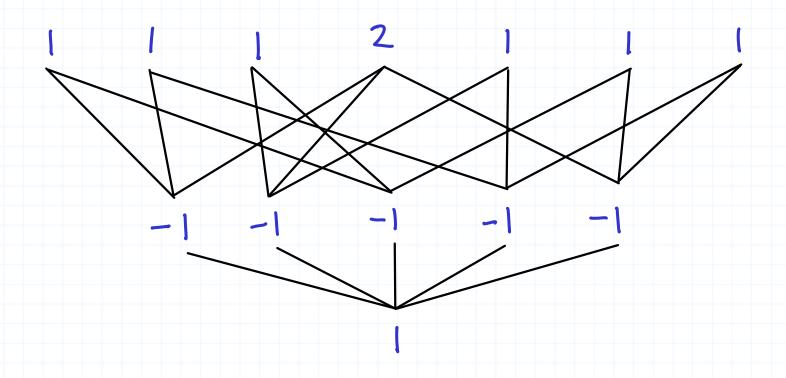




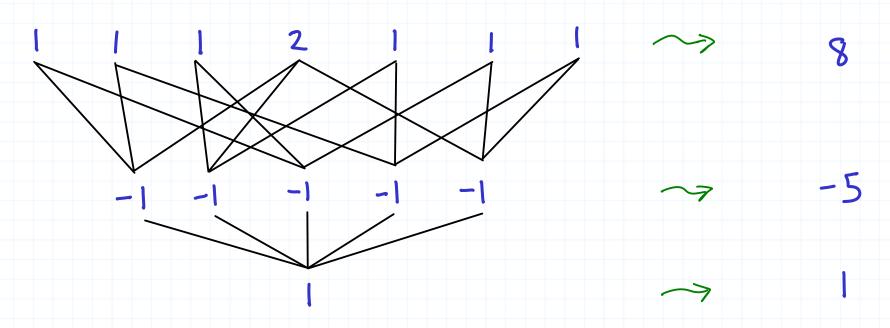
I(A): Intersection poset



M: Möbius function for L(A)

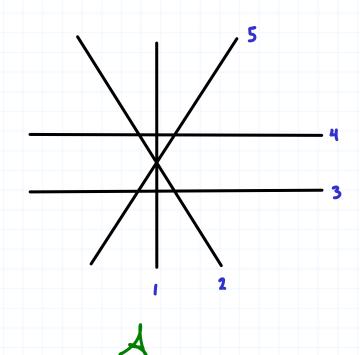


M: Möbius function for L(A)



$$7(A(t) = \sum_{x \in L(A)} \mu(x) t^{x} = 1.t^{2} - 5.t + 8$$

characteristic polynomial



Theorem. (Zaslausky, 1975)

$$\chi_{A}(t) = t^{2} - 5t + 8$$
, $\chi_{A}(-1) = 14$

G-Shi conjecture (Duval, Klivans, Martin)