

Math Research

CU Math Club & Diversity Committee

Cell decomposition

$$0 \text{ cells} : 0 \times G/G, \infty \times G/G$$

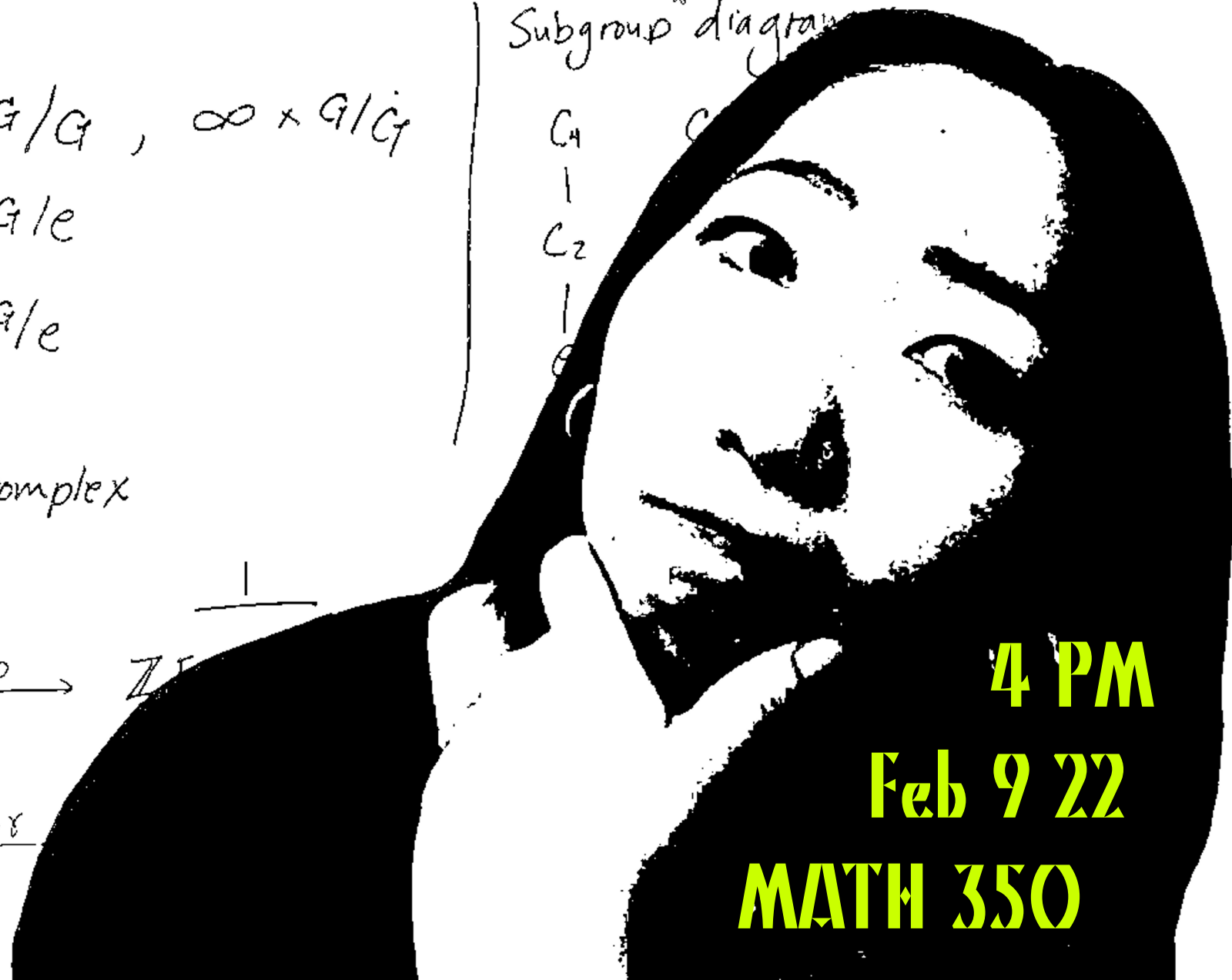
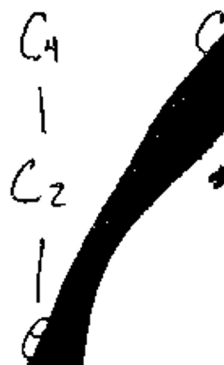
$$1 \text{ cells} : e_1 \times G/e$$

$$2 \text{ cells} : e_2 \times G/e$$

Generate MF chain complex

$$\begin{array}{ccc} \underline{2} & & \underline{1} \\ \mathbb{Z}[C_4/e]^{C_4} = \mathbb{Z}\{e + r_1 r^2 + r^3\} & \xrightarrow{0} & \mathbb{Z}[C_4/e]^{C_2} \\ \Delta \downarrow \nabla & & \\ \mathbb{Z}[C_4/e]^{C_2} = \mathbb{Z}\{e + r^2, r + r^3\} & \xrightarrow{e - r} & \mathbb{Z}[C_4/e]^{C_1} \\ \text{inc} \uparrow & & \text{inc} \uparrow \\ \mathbb{Z}[C_4/e]^{C_1} & & \mathbb{Z}[C_4/e]^{C_0} \end{array}$$

Subgroup diagram



4 PM

Feb 9 22

MATH 350

Demystified