

$$\begin{array}{l} \{ \\ \} \\ \{ \\ \} \\ 0,1 \\ ?? \\ \{ \\ \} \\ n \\ \sigma(m)) = \\ \sigma(-1- \\ m) \\ \sigma(m)) = \\ -\sigma(m) \\ -\sigma(m)+ \\ 2\sigma(0) \equiv \\ -\sigma(m) \\ \sigma(m)) = \\ I^{\circ} \\ R(\sigma(m)) = \\ I(R(\sigma(m))) = \\ -\sigma(-1- \\ m) \\ Klein.jpeg* \\ Klein \\ Klein \\ 2 \\ \{ \\ \} \\ grupo \\ de \\ Klein \\ \overline{\overline{Z}}/(2) \times \\ Z/(2) \end{array}$$

$$\#Spec = \frac{1}{|Z/(2) \times Z/(2)|} \sum_{\sigma \in S_n} |Stab(\sigma)| = \frac{1}{4} \sum_{\sigma \in S_n} |Stab(\sigma)|$$

$$\begin{array}{l} \sigma \in \\ S_n \\ \sum_i |Stab(\sigma)| \\ \# \sigma_i \\ i \end{array}$$

$$\sum_{\sigma \in S_n} |Stab(\sigma)| = 1 \cdot (\# \sigma_1) + 2 \cdot (\# \sigma_2) + 4 \cdot (\# \sigma_4)$$

$$\begin{array}{l} \sigma(m) \equiv \\ \sigma(m) \iff \\ 0 \equiv \\ 2\sigma(m) \iff \\ n \equiv \\ 2\sigma(m) \iff \\ \frac{n}{2} \equiv \\ \sigma(m) \\ \sigma(m) \\ m \in \\ Z/(n) \\ \# \sigma_4 = \\ 0 \\ \# \sigma_2 \\ \gamma \end{array}$$

$$\gamma +$$

$$\begin{array}{l} \sigma(m) = \\ R(m) = \\ \sigma(-1- \\ m) \\ (-1- \\ m) \\ \gamma + \\ \sigma(-1- \\ m) = \\ \sigma(m) \\ \gamma = \\ \sigma(-1- \\ m) - \\ \sigma(m) = \\ \sigma(m) - \\ \sigma(-1- \\ m) \\ 2\sigma(m) \equiv \\ 2\sigma(-1- \\ m) 2\sigma(m) - \\ 2\sigma(-1- \\ m) \equiv \\ 0 \\ 2\sigma(m) - \end{array}$$

$$\overset{\gamma}{\sigma}(m)=RI(\sigma(m))+\gamma=-\sigma(-1-m)+\gamma$$

$$\gamma=\sigma(m)+\sigma(-1-m)$$

$$\overset{n}{\sigma}(\frac{n-1}{2})$$

$$\sigma(-1-\frac{n-1}{2})$$

$$\overset{\gamma}{2}=\overset{\gamma}{2}$$

$$\overset{2}{\sigma}(\frac{n-1}{2})$$

$$\overset{2}{0}=\overset{2}{0}$$

$$\overset{\gamma}{\sigma}(m)=$$

$$-\sigma(-1-m)$$

$$\overset{n-1}{\sigma}(0)$$

$$\overset{n-3}{\sigma}(1)$$

$$\overset{n-3}{n^2}$$

$$(n-1)(n-3)\ldots(n-2\cdot\frac{n-5}{2}-1)(n-2\cdot\frac{n-3}{2}-1)=$$

$$=(n-1)(n-3)\ldots(n-(n-5)-1)(n-(n-3)-1)=$$

$$=(n-1)(n-3)\ldots4\cdot2=(n-1)!!$$

$$\overset{n}{\sigma}(m)\neq$$

$$\sigma(-1-m)\forall m\in$$

$$\mathbb{Z}/(n)$$

$$\overset{\gamma}{2k}\leq\overset{\gamma}{2k}$$

$$\overset{n}{\sigma}(m)=$$

$$\overset{k}{k}+$$

$$\sigma(-1-m)=$$

$$2k\sigma(-1-m)=$$

$$\overset{k}{\sigma}(m)=$$

$$\overset{\gamma}{\sigma}(0)=$$

$$\overset{0}{\frac{n}{2}}$$

$$\sigma(-1-m)$$

$$\overset{\gamma}{\sigma}(1)$$

$$(n-2)$$

$$\overset{\gamma}{\sigma}(2)$$

$$(n-4)$$

$$\overset{n}{2}\cdot$$

$$(n-2)(n-4)\ldots(n-2\cdot\frac{n-4}{2})(n-2\cdot\frac{n-2}{2})=$$

$$=\frac{n}{2}\cdot(n-2)(n-4)\ldots(n-(n-4))(n-(n-2))=$$

$$=\frac{n}{2}\cdot(n-2)(n-4)\ldots4\cdot2=\frac{n}{2}\cdot(n-2)!!$$