```
Abs. Alg. #17 191206
                                                                        \sigma = \underbrace{(\cdot)}_{n_1 \le n_2} \underbrace{(\cdot)}_{n_3 \le \cdots} \underbrace{(\cdot)}_{n_4} \underbrace{(\cdot)}_{n_4 \le \cdots} \underbrace{
                                                                        非泯り自然改行(n.j; で Zn; = n
a partition of n と・・).
                                                                  07,02 eS. : conjugate in S
               (1)
                                                                                                                                                                                                                                                                                or, rz k
                                                                                                                                                ds.s of Sm) = # ( per
# (permissible cycle
                                                   じかっ

上のように 15定めると、 \sigma_2 = 7\sigma_1 \tau^{-1}

(1)(2) 「\sigma_1, \sigma_2 \in cm)、7までの機数ある。」
                                                        \langle \mathcal{G} \mid \Gamma v_1, \nabla v_2 \in cn_1, T \in \Gamma n  持度 v_3 \in J.

\sigma_1 \wedge \sigma_2 \mid V_1 \wedge \sigma_3 \mid \sigma_4 \wedge \sigma_4 \mid \sigma_4 \wedge \sigma_5 \mid \sigma
                                    | T | C<sub>Sk</sub>(r) | = m (n-n)!
実際、のロ。

② 1,の,…,の<sup>p-1</sup> を可換
                                                                                                       0-e m-cycle F F e -7 7 7 (n-m)
                                                                                                                                                T = ( .... )
                                         7.3%, \sigma: m < yde \Rightarrow C_{S_k}(r) = \{\sigma^i \tau \mid 0 \le i \le s\}
                                                                                                                                                                                                                        \phi \ \mathbb{C}_{\mathfrak{I}_{n}}(\Gamma) = \ m \ (n-m) \ .
                                                                                                                                                                                                                                                                                mj. ds. of G (KcH
                              4.12.
As it a si
                                                                                                                                                                                                                                                                                                                                                                                                                                           * of. p. 145
                              of 5.

rep. 3 of the cycle type of As: cf. 91(0)

1, (123), (123+5), (12) (3+).

Dep
                              20 8-cydes in As

$G(8-1)!

MAII 20 8-cy
                                                                                                                                                                                                                                                  , 20 dutact wij. of (127)

Cyc((127)) = <(123)> and 2,
                              5-cpcle 12:07.
24 S-cpcles in Ar .
                                                                                                                                                                                                                                                                                                                                                                                  orj. of (12345)
                                    (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345) (12345
                                                             (Ag((12)(14))
                                                             → All IS elec
               In Summary ,
H生As E版走
                                                                  H.S. As z Winc
En 包でおたらた、H.Os
Has wisen of conj. cls.s of Az
                                                                  ]H| = ( {1,12,4,15.20 } $
(43 b € 7£ 1 f. 8 o
                                                                        §4.4. Automorphism
                                                                                                                 Ψ: 6 → 6 : iso

: automorphism of 6

Aut (6.) := { Ψ: 6-

Aut (6) ≤ S6
                                         732.

49 € Aut (H).

ker 4 = C<sub>6</sub>(H)
                                                                                                 Fr = C_{QCHII}
F / (G(H) \cong Q \leq Aut(C_{QCHII})
K \leq G
3 \in G
3 K 9^{-1}, |k| = |9k9^{-1}|.
                                                                                                                                                                                                                                                                                                                                                                                                                            | K| = | 8 K4~' |
                                                                                                                                                                                    H≤G
                                    N_{G}(H) / C_{G}(H) \cong O \leq Aut(H)
                                                                                                                                                               2(6) ≅ Q ≦ A
                                                                                                                                                                               8 ∈ G

98 : G → G : aut.

4 → 91(4):
                              \Psi_{\Phi}: inner out. of G

\{\Psi_{\Phi}: \text{inn. aut} \mid \emptyset \in G \} = : \text{Jan}(G) \leq \text{Aut}(G)
          G: ak
                              H & G : Abelian . H & 2 (6) 

$\frac{1}{2}$ 3 8 6 6 1.1. (9 3 : H - H & Im 

$\frac{1}{2}$ 4 4 4 = G , 9 - (a.)
                                                                                                                                                                                                                                                                                                                                                                                                  ₫ Inn(G).
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