```
Satz von Cayley-Hamilton:
                                                                                                                                          P_{A}(A) = 0.
       Hatter Bew. J. diegleres A
Bew f. g bel. AE M(n, C).
               YPoly P: P (S JNF (A) ST)
                                                                                                          = 5 7 ( JNF(A) ) 5
             Block for Block: PA(J) = ?
        P(\lambda) = dut(A - \lambda E) = dut(S^{-1}(A - \lambda E) S)
= dut(S^{-1}AS - \lambda E) =
= P_{JNF(A)}(\lambda)
= \int_{JNF(A)}(\lambda - \lambda) = (-1)^{n} \int_{J=1}^{n} (\lambda - \lambda E) = (-1)^{n} \int_{J=1}^
                               d= #EWe vor A
                           JK J = J_m(\lambda_i), m \leq a(\lambda_i)
           \Rightarrow P_{A}(J) = (-1)^{n} \prod_{i \neq i} (J - \lambda_{i} E)^{a(\lambda_{i})}

\frac{J-\lambda_i E = N_m}{N_m^m = 0} \longrightarrow N_m^{a(\lambda_i)} = 0

                                                                                                                                                                                                                                                                   (J-1;E)a(1;)
                                 \Rightarrow P_{A}(J) = 0 \Rightarrow P_{A}(A) = 0.
```