

plucker

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1 Plucker

1.0.1 plucker

$(m + 1) \times n$. i_1, \dots, i_m, j_k $p_{i_1 \dots i_m j_k}$, Plücker

$$\sum_{k=0}^{m+1} (-1)^k p_{i_1 \dots i_m j_k} p_{j_0 \dots j_k \dots j_{m+1}} = 0$$

. , Plücker .

1.0.2 plucker_relation

`plucker_relation(L,M)`
 :: Index L, M Plucker .

`return` quote

L

M

- L , Plucker i_1, \dots, i_m , M , Plucker j_0, \dots, j_{m+1} .
 [297] `A = plucker_relation([1,2],[3,4,5,6]);`
`quote(y_1_2_3*y_4_5_6-y_1_2_4*y_3_5_6+y_1_2_5*y_3_4_6-y_1_2_6*y_3_4_5)`
 [298] `eval_str(print_terminal_form(A));`
`y_4_5_6*y_1_2_3-y_3_5_6*y_1_2_4+y_3_4_6*y_1_2_5-y_3_4_5*y_1_2_6`

1.0.3 plucker_y

`plucker_y(L)`
 :: Index L .

`return`

L

- Index L . .
 [297] `plucker_y([1,2,3]);`
`y_1_2_3`

 [298] `plucker_y([2,1,3]);`
`-y_1_2_3`

1.0.4 plucker_index

`plucker_index(V)`
 : It gets the index of the variable V .

Example:

`plucker_index(plucker_y([1,2,3]));`

Index

(Index is nonexistent)

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