

# 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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## Short Contents

1 Plucker .....	1
Index .....	2

# Table of Contents

<b>1</b>	<b>Plucker</b>	<b>1</b>
1.0.1	plucker	1
1.0.2	plucker_relation	1
1.0.3	plucker_y	1
1.0.4	plucker_index	1
	<b>Index</b>	<b>2</b>

