

pluck

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OpenXM.org

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

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

. , 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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