

$\Phi_f: \langle \text{Rep}_d(f) \rangle \rightarrow \langle \text{Mon}(f) \rangle, y^a \mapsto \begin{pmatrix} y_0 \\ \vdots \\ y_1 \end{pmatrix}$

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The field of K -rational functions is denoted by

$\Phi_f = \langle \text{Rep}_d(f) \rangle \rightarrow \langle \text{Rep}_d(f) \rangle$

where $y^b = 0$. Then $J_n(f)$ is defined as

2003

$\Phi_f: \langle \text{Rep}_d(f) \rangle \rightarrow \langle \text{Rep}_d(f) \rangle$

for $y \in K$

The matrix of the linear map $J_n(f)$ is

Jacobian's resultant matrix and is denoted

again by $J_n(f)$

After permuting rows and columns $J_n(f)$

has the following structure

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