u W C _ P v ∅ ‡
2003 ¤ **15** œ

vii S s @ [5] ⇒ [7]

x P S s @ ª … ⇒ P Q ˝

R ¯ @ ″ ' P O C R s @

$$k \Rightarrow \mathbf{C}$$

S ¯ @ Q s @ $AC - B^3 = 0$ D
″ ' Q s

$$\sqrt{-1}(x^2 - y^2) + 2xy = 2x$$

W ¯ @ V s @ $f(Ax)$

P P ¯ @ P T s @ $\overline{\mathbf{C}} \Rightarrow \mathbf{C}$

P T ¯ @ R s @ $D_3 \Rightarrow D_4$

P T ¯ @ ¯ ª fi ‟ $24(1+t^2)$ i Q
j ˚ $24(1+t/2+t^2)$ ˚ $24(1-t/2+t^2)$ D

P V ¯ @ R s @ $a, b \in \mathbf{C}$ i j

P W ¯ @ Q s @ ± i j

P X ¯ @ ″ ' T s @ Q W Œ
∅

Q Q ¯ @ ″ ' U s $\beta\delta$ ˚ $2\beta\delta$ i Q
j

Q R ¯ @ S s @ §10.3(c) Q ˘ ″ D

Q S ¯ @ R s @ α^8, α^{12} {

Q U ¯ @ $6x^2y^2$ ˚ $6x^2(y^2-x^2)$ ˚ Ψ ¯ ` ˜ fl ¶ _ $(3,1)$ s ›

Q W ¯ @ ″ ' X s @ Q Q { •
∅

R R ¯ @ ″ ' X C S s @ (i) ˘ (ii)
Œ ƒ ∅

R V ¯ @ R s @ i d Γ
@ U s @ ″ … ‰ °
@ V s @ $\mathfrak{H}^- = \{\operatorname{Im} z < 0\}$

S T ¯ @ ¯ I s @ $y_1, \ldots, y_m$

S U ¯ @ P s @ $(y_1, \ldots, y_m)$

S V ¯ @ ¯ I s @ $1 \le i \le M$

S W ¯ @ P s @ ` ˜ C i j

T O ¯ @ W s @ [Ł 2.11] @

T Q ¯ @ U s @

$$f(x) = L(b)x^n + a_1x^{n-1} + \cdots + a_{n-1}x + a_n \in A[x]$$

T R ¯ @ U s @ $k \hookrightarrow \tilde{R}/\mathfrak{m}$

T V ¯ @ S s @ $\cdots x, y \in A, \cdots$
″ ' W s

$$\cdots + a_dx^{-d+1} + a_{d+1}x^{-d}$$

″ ' R s @ $\mathfrak{m} \Rightarrow \tilde{\mathfrak{m}}$

T W ¯ @ P S s @ $(R, \mathfrak{m}) \Rightarrow (A, \mathfrak{m})$

U P ¯ @ ¯ I s $q_i \mapsto q_i$ ˝ $q_i \mapsto t_iq_i$ D

U Q ¯ @ P O s @ $\mathbf{C}^6 \cdot \mathbf{C}^{*8}$
″ ' R s
(i) $D^m f(A, B, C) \in R_{(d,m)}$

U S ¯ @ T s @ Ł 2.47 @
$m(\tilde{w}_1 + \cdots + \tilde{w}_9) \notin \Gamma$ ˘ • Ø

U U ¯ @ ″ ' T s

$$(p + \sqrt{-a}q, p - \sqrt{-a}q)$$

V O ¯ @ W C X s @
$\mathfrak{a}_n \Rightarrow \mathfrak{a}_r$ i R j

V Q ¯ @ P s

$$\frac{g(x)}{f(x)^m}, \quad \text{i} \quad \text{“}, m \geq 0$$

V S ¯ @ ″ ' V C W s
Ł 3.7 ⇒ §3.8

V W ¯ @ S s @ $\cdots = ac \otimes bd$
P U s @ S ∕ ´ §7.2(a) '

V X ¯ @ P V s @ $D(a) \subset Y$

W O ¯ @ P S s @ P “ §7.2(b) Q ˘ j

X R ¯ @ W s @ Ł 2.37
P R s @ R X A t B J W
´

X V ¯ @ P s @ $v : K^* \to \Lambda$

X W ¯ @ P R s @ $\tilde{\lambda} : \mathbf{A}^1 \longrightarrow X$

P O T ¯ @ T s @ R · ł D ‰ æ
' p ł „ Ø ˘ ° ¨ Ø ˘ ‹ D ″ · x
L ° ˘ ¢ ∕
U s @ $x \in R$ i j

P O V ¯ @ X s @
^ ° ⇒ · • @

P T s @ @ $\cdots g(p))) = 0$
P V s @ $\cdots - \alpha(f(p)g(p)) = \cdots$

″ ' U s @ ł ¨ ª §8.3 Q ˘ j

P O W ¯ @ P R s @ $S(G)_e \Rightarrow \mathcal{H}(G)_0$

P O X ¯ @ V s @ $E = t\dfrac{d}{dt}\Big|_{t=1} \cdots$
P O s @

$$t\frac{\partial}{\partial t}t'\frac{\partial}{\partial t'}f(tt')\Big|_{t=t'=1}$$

P P s @ $(t \cdot d/dt)^2 f(t)|_{t=1}$
P Q s @ $(t \cdot d/dt)^n f(t)|_{t=1}$
P V s @ $(\rho, V) \Rightarrow (\mu, V)$

P P O ¯ @ P s @ $\rho(\alpha)v = \alpha(1)v$

P P P ¯ @ R s @ æ » ¸ o ^ ` fi
″ ' W s @ $a_{\ell i} \Rightarrow a_{i\ell}$

P P S ¯ @ ″ ' R s @
$I_n \Rightarrow I_U$ i P ° C Q j

P P U ¯ @ [Ł 4.39] ¤ fl Ø
$P_V(t)$ Casimir p ł $p(\Omega)$ V ¤ fl
Ø ¯ L ‰ fi » Œ ¯ Æ ¯ ` ‰
@ ¯ L ¸ e jD

P P V ¯ @ U s @ $\cdots \sum_{i=1}^{N} h_i f_i$
P P s @ $f \Rightarrow h$
P T s @ $R^G \Rightarrow S^G$

P P X s @ W s @ $\dfrac{e-f}{\sqrt{-2}}$

P Q Q ¯ @ W s @ $e^2 \Rightarrow \rho(e)^2$
P W s @ $\mathbf{Z}[q, q^{-1}]$

P Q R ¯ @ U s @ $-\frac{1}{\pi} \quad \Rightarrow \quad \frac{1}{\pi}$

P Q U ¯ @ P Q s @ $\sum_{e=0}^{\infty} a_e(q)t^e$

P R O ¯ @ U s

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¯ I s @ Buchsbaum, D.A. and Eisenbud, D.: Algebra structures for finite free resolutions, and some structure theorems for ideals of codimension 3, Amer. J. Math. **99**(1977), 447-485.

P R R ¯ @ Q s @ $\cdots = \sum_{0 \le i.j \le n} \cdots$

P R T ¯ @ ″ ' P Q C U C S s i U j

$$V \quad \Rightarrow \quad U, \quad W \quad \Rightarrow \quad V$$

P R V ¯ @ ″ ' P O s @ ^ ¨ æ

P S Q ¯ @ ″ ' S C P s i R j

$$\phi^{-1}A \quad \Rightarrow \quad \Phi^{-1}A$$

P S R ¯ @ P P s @ x ° Ø

P S W ¯ @ T s @ æ ` ˜ ‰ fi

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″ ' V s @ C f A $(f_0, \ldots, \hat{f}_i, \ldots, f_n)$

P S X ¯ @ ″ ' V s @ $g_2^3(\xi)/D(\xi)$

P T O [P T P ¯ @ ‰ Ł 5.28 d i T j ˝ ° ¶ C Æ ƒ ḥ C ƒ Ø

P T R ¯ @ Q s @

$$R_{F,0}\left[\left(\frac{F_i(\xi)^{\cdots}}{F(\xi)^{\cdots}}\right)^{-1}\right]$$

″ ' Q s @

$$p = 0 \quad \Rightarrow \quad r = 0$$

P T V ¯ @ ″ ' X s

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P T W ¯ @ ″ ' X s (5.4) fi N ˝ s ˇ fi $F(\xi)$ ‰ fi ˘ ˜ i j

P T X ¯ @ ″ ' S s ˝

$$a_n = a_{n+1} = \cdots = a_d = 0, \quad n = [(d+1)/2].$$

P U O ¯ @ ″ ' W s @ d $(I, \lambda) \le 0$

P U R ¯ @ P s @ d $(I, \lambda) < 0$

P Q S ¯ @ W s @ n ‡ \ » v ˝ – i æ 10 ‡ ° \ ° Ł j

u W C _ Q v ø ‡

P V V ¯ @ ″ ' U s @ $\tilde{Y}$ $\Rightarrow$ Y'

P W P ¯ @ ¯ I s @
‰ $\mathrm{Spec}\, R$ \ ¢ ¸ · ·

P W Q ¯ @ ″ ' R s @ $\mathrm{Proj}\,(\bigoplus_{m\geq 0} R_{(m)})$

P W S ¯ @ P U C P V s ¶ ˝ ˝ C ″
⁄ … ˜ X ¯ Ł 6.12 … ª
• D
$\mathfrak{x} = 1$ ˘ « ˝ C Ł " i … j s
˘ fi ¯ C • ˜ _ ˝ … Ł ¯ Ø D `
˜ C ª ˝ Ł 5.11 ˘ Œ v • Ø Dv

P X W ¯ @ \ x_3 d ´ $(10:001)$

Q U S ¯ @ r @
k_C $\Rightarrow$ K_C i Q j