

noromodule.syz

noromodule.syz User's Manual
Edition 1.0
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1 noro_module_syz.rr

ヤ , asir-contrib 宴若吾 蚊 , 臂や syzygy 活 怨茹 c 荐膊宴若
 ‘noromodule_syz.rr’ や 茯 . 宴若吾箴帥 , 障 ‘noromodule_syz.rr’ 若.

[...] load("noromodule_syz.rr");

宴若吾 醇違若喝冴 , newsyz. や.

1.1 臂や syzygy

1.1.1 newsyz.module_syz

newsyz.module_syz($f, v, h, O[|weyl=1|]$)

syzygy 膾 (違 弱阪) 荐膊.

return 障 絳 鴻 鴻

f 紊絳 鴻, 障 絳 鴻 鴻

v 紊違 鴻

h 莢匱

O 綺

- 紊絳 紊絳障紊絳 syzygy 臂や 違 弱阪荐膊.
- $f=[f_1, \dots, f_m]$, $h_1*f_1+\dots+h_m*f_m=0$ 羣紊絳 (h_1, \dots, h_m) 臂や 違 弱阪 荐膊
- f_i 紊絳 鴻 翫, 吟 絳 .
- 箴綺 O , 臂や 綺 $[1, O]$ O 障 POT (position over term) 綺 違 弱阪 膾
- $h=0$ 遺箴 trace 眼 冴 荐膊. $h=1$ 遺箴 黽 trace 眼 冴 荐膊. $h=2$ 篁ヤ 違 箴箴 膊. 激 weyl 1 Weyl 篁 f 遺, 綏 や (綏 臂) 膊.
afo

1.2 臂や 怨茹

1.2.1 newsyz.module_minres

newsyz.module_syz($f, v, h, O[|weyl=1|]$)

臂や 怨茹 c 荐膊.

return 紊絳 鴻 鴻 鴻

f 紊絳 鴻, 障 絳 鴻 鴻

v 紊違 鴻

h 莢匱

O 綺

- R 素綯違 . $f=[f_1,...,f_m]$ R や 障 R^k 臂 (M) 膾祉 . 違, M 怨茹, $0 \rightarrow F(1) \rightarrow F(1-1) \rightarrow \dots \rightarrow F(0) \rightarrow M \rightarrow 0$ 荐膊. $F(i)=R^{(n_i)}$.
- 脰 $[f_1,...,f_0]$ 鴻, $f_i F(i) \rightarrow F(i-1)$ ($F(-1)=M$) 茵 . $f_i=[g(1),...,g(n(i))]$, g_j 泣や $n(i-1)$ 鴻, $F(i)$ j 罔羣阪 茵 .
- newsyz.module_syz 紵茵, 緇 syzygy 膾祉 , 紵違 や 膾 茵, 箴 弘菴 眼 冴紵茗 .
- , f 菴 < 翫, 罐球 怨茹 c 緇. f 菴 < 翫, 亜脰 $F(i)$ 瀉 絨膾 .
- h, O , 激 weyl や newsyz.module_syz 罕 .
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(Index is nonexistent)

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