

# Maximal $(5, 4)$ -permutation codes

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Size : 7, Invertible codes

1	2	3	4	5
2	1	4	3	5
2	5	3	1	4
3	2	1	5	4
3	5	4	2	1
4	3	5	1	2
5	4	2	1	3

$$\tilde{P}(y) = 7 + 6y^4 + 5y^5 + 4y^6 + 6y^7$$

Order of the stab. :8

Gen. of the stab. :

$$\mathfrak{g}_{(2,3,4,5)} \mathfrak{d}_{(1,2,5,3)},$$

$$\mathfrak{g}_{(1,2,3,5,4)} \mathfrak{d}_{(1,2,3,5,4)} \mathfrak{s},$$

Size : 8

Non-invertible codes

1	2	3	4	5
1	5	2	3	4
2	3	1	5	4
3	2	5	1	4
3	5	4	2	1
4	1	5	3	2
5	3	4	1	2
5	4	1	2	3

$$\tilde{P}(y) = 8 + 10y^4 + 6y^5 + 6y^6 + 6y^7$$

Rigid code

1	2	3	4	5
2	3	1	5	4
3	1	4	2	5
3	5	1	4	2
4	1	2	5	3
4	3	5	2	1
5	2	4	1	3
5	4	2	3	1

$$\tilde{P}(y) = 8 + 11y^4 + 4y^5 + 5y^6 + 8y^7$$

Rigid code

1	2	3	4	5
2	3	1	5	4
3	2	4	5	1
3	5	1	4	2
4	2	5	1	3
4	5	3	2	1
5	1	4	2	3
5	4	2	3	1

$$\tilde{P}(y) = 8 + 10y^4 + 7y^5 + 6y^6 + 5y^7$$

Rigid code

1	2	3	4	5
2	1	5	4	3
2	5	1	3	4
3	2	5	1	4
3	4	1	5	2
3	5	4	2	1
4	3	2	1	5
5	1	4	3	2

$$\tilde{P}(y) = 8 + 10y^4 + 6y^5 + 5y^6 + 7y^7$$

Rigid code

1	2	3	4	5
2	3	5	4	1
3	2	5	1	4
3	4	1	5	2
3	5	4	2	1
4	1	5	2	3
5	1	2	3	4
5	3	4	1	2

$$\tilde{P}(y) = 8 + 11y^4 + 6y^5 + 5y^6 + 6y^7$$

Rigid code

1	2	3	4	5
1	4	5	2	3
2	1	4	5	3
2	3	5	4	1
3	2	1	5	4
3	5	4	2	1
4	5	1	3	2
5	3	2	1	4

$$\tilde{P}(y) = 8 + 9y^4 + 6y^5 + 7y^6 + 6y^7$$

Rigid code

1	2	3	4	5
1	4	5	2	3
2	1	4	5	3
3	1	5	4	2
3	2	1	5	4
3	5	4	2	1
4	5	1	3	2
5	3	2	1	4

$$\tilde{P}(y) = 8 + 10y^4 + 6y^5 + 6y^6 +$$

$6y^7$

Rigid code

1	2	3	4	5
1	4	5	3	2
2	1	4	3	5
2	3	1	5	4
3	2	5	1	4
3	5	4	2	1
4	1	5	2	3
5	3	4	1	2

$$\tilde{P}(y) = 8 + 10y^4 + 8y^5 + 6y^6 + 4y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(1,3)(4,5)}\mathfrak{d}_{(1,2)}$ ,

1	2	3	4	5
2	3	1	5	4
3	1	4	2	5
3	5	2	4	1
4	1	2	5	3
4	2	5	3	1
5	3	4	1	2
5	4	1	2	3

$$\tilde{P}(y) = 8 + 11y^4 + 4y^5 + 4y^6 + 9y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(2,3)(4,5)}\mathfrak{d}_{(1,4)(3,5)}$ ,

1	2	3	4	5
2	3	5	4	1
2	5	3	1	4
3	4	1	5	2
3	5	4	2	1
4	1	5	2	3
5	1	2	3	4
5	3	4	1	2

$$\tilde{P}(y) = 8 + 11y^4 + 4y^5 + 5y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(2,4)}\mathfrak{d}_{(1,3)(4,5)}$ ,

1	2	3	4	5
1	5	2	3	4
2	1	4	3	5
2	3	1	5	4
3	2	4	5	1
3	5	1	4	2
4	1	5	2	3
5	4	2	1	3

$$\tilde{P}(y) = 8 + 11y^4 + 4y^5 + 5y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(1,2)(4,5)}\mathfrak{d}_{(2,3)}$ ,

1	2	3	4	5
1	3	2	5	4
2	4	1	3	5
3	5	4	2	1
4	1	5	2	3
4	5	3	1	2
5	2	4	1	3
5	3	1	4	2

$$\tilde{P}(y) = 8 + 9y^4 + 6y^5 + 7y^6 + 6y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(3,5)}\mathfrak{d}_{(1,3)(2,5)}$ ,

1	2	3	4	5
2	1	5	4	3
2	3	1	5	4
3	5	1	4	2
4	3	5	2	1
5	1	3	2	4
5	2	4	1	3
5	4	2	3	1

$$\tilde{P}(y) = 8 + 9y^4 + 8y^5 + 7y^6 + 4y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(4,5)}\mathfrak{d}_{(1,4)(3,5)}$ ,

1	2	3	4	5
1	3	5	2	4
2	1	5	4	3
2	5	3	1	4
3	1	2	5	4
3	5	4	2	1
5	2	1	3	4
5	3	4	1	2

$$\tilde{P}(y) = 8 + 12y^4 + 8y^5 + 4y^6 + 4y^7$$

Order of the stab. :4

Gen. of the stab. :

$\mathfrak{g}_{(1,2)(3,5)}$ ,

$\mathfrak{g}_{(1,3)(2,5)}\mathfrak{d}_{(1,2)(3,4)}$ ,

1	2	3	4	5
2	1	4	3	5
2	3	1	5	4
3	1	5	2	4
3	5	2	4	1
4	3	2	1	5
4	5	1	3	2
5	4	1	2	3

$$\tilde{P}(y) = 8 + 9y^4 + 8y^5 + 7y^6 + 4y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(1,5)(2,4)}\mathfrak{d}_{(3,5)}$ ,

1	2	3	4	5
1	4	2	5	3
2	1	5	4	3
2	3	1	5	4
3	2	4	5	1
3	5	1	4	2
4	1	3	5	2
5	3	2	4	1

$$\tilde{P}(y) = 8 + 12y^4 + 12y^5 + 4y^6$$

Order of the stab. :24

Gen. of the stab. :

$\mathfrak{g}_{(1,2,3)}\mathfrak{d}_{(1,5,3)}$ ,

$\mathfrak{g}_{(1,2)(4,5)}\mathfrak{d}_{(2,3)}$ ,

1	2	3	4	5
1	5	4	3	2
2	3	1	5	4
3	1	5	4	2
3	4	2	5	1
4	1	2	3	5
4	3	5	2	1
5	4	1	2	3

$$\tilde{P}(y) = 8 + 12y^4 + 4y^5 + 4y^6 + 8y^7$$

Order of the stab. :4

Gen. of the stab. :

$\mathfrak{g}_{(2,4,5,3)}\mathfrak{d}_{(1,3)(2,5)}$ ,

1	2	3	4	5
1	3	2	5	4
2	3	5	4	1
2	4	1	3	5
3	5	4	2	1
4	1	5	2	3
4	5	3	1	2
5	2	4	1	3

$$\tilde{P}(y) = 8 + 9y^4 + 6y^5 + 7y^6 + 6y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(1,2)(3,5)}\mathfrak{d}_{(2,5)}$ ,

1	2	3	4	5
1	5	2	3	4
2	1	4	5	3
2	3	5	4	1
3	4	2	1	5
3	5	4	2	1
4	2	5	1	3
5	3	1	2	4

$$\tilde{P}(y) = 8 + 12y^4 + 4y^5 + 4y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(3,4)}\mathfrak{d}_{(1,4)(2,3)}$ ,

Invertible codes

1	2	3	4	5
2	1	5	3	4
2	3	4	1	5
2	4	3	5	1
2	5	1	4	3
3	5	4	2	1
4	3	1	5	2
5	4	2	1	3

$$\tilde{P}(y) = 8 + 12y^4 + 6y^5 + 4y^6 + 6y^7$$

Order of the stab. :24

Gen. of the stab. :

$$\mathfrak{g}_{(1,2)(3,5)} \mathfrak{d}_{(1,2)(3,5)} \mathfrak{s},$$

$$\mathfrak{g}_{(1,4,3)} \mathfrak{d}_{(2,4,5)},$$

$$\mathfrak{g}_{(1,4)(3,5)} \mathfrak{d}_{(2,5)(3,4)},$$

1	2	3	4	5
2	3	1	5	4
3	1	4	2	5
3	5	2	4	1
4	2	5	1	3
4	5	1	3	2
5	2	4	3	1
5	4	1	2	3

$$\tilde{P}(y) = 8 + 8y^4 + 9y^5 + 7y^6 + 4y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,3)(4,5)} \mathfrak{d}_{(1,3)(4,5)} \mathfrak{s},$$

1	2	3	4	5
1	3	2	5	4
2	1	5	4	3
2	5	3	1	4
3	4	2	1	5
3	5	4	2	1
4	5	1	3	2
5	2	4	1	3

$$\tilde{P}(y) = 8 + 11y^4 + 6y^5 + 5y^6 + 6y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,4)(2,5)} \mathfrak{d}_{(1,4)(2,5)} \mathfrak{s},$$

1	2	3	4	5
1	5	2	3	4
2	3	1	5	4
3	2	5	1	4
3	5	4	2	1
4	1	5	3	2
4	3	2	1	5
5	4	1	2	3

$$\tilde{P}(y) = 8 + 10y^4 + 6y^5 + 6y^6 + 6y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,5,4,2,3)} \mathfrak{d}_{(1,5,4,2,3)} \mathfrak{s},$$

1	2	3	4	5
1	4	2	5	3
2	1	5	4	3
3	2	1	5	4
3	4	5	1	2
3	5	4	2	1
4	5	1	3	2
5	3	2	1	4

$$\tilde{P}(y) = 8 + 9y^4 + 7y^5 + 6y^6 + 6y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,3,2,5)} \mathfrak{d}_{(1,3,2,5)} \mathfrak{s},$$

1	2	3	4	5
1	3	5	2	4
2	5	3	1	4
3	1	2	5	4
3	5	4	2	1
4	1	5	3	2
5	2	1	3	4
5	4	2	1	3

$$\tilde{P}(y) = 8 + 12y^4 + 6y^5 + 4y^6 + 6y^7$$

Order of the stab. :24

Gen. of the stab. :

$$\mathfrak{g}_{(1,3)(4,5)} \mathfrak{d}_{(1,3)(4,5)} \mathfrak{s},$$

$$\mathfrak{g}_{(1,5,4,2,3)} \mathfrak{d}_{(1,5,4,2,3)} \mathfrak{s},$$

$$\mathfrak{g}_{(1,2)(4,5)} \mathfrak{d}_{(1,2)(4,5)} \mathfrak{s},$$

Size : 9

Non-invertible codes

1	2	3	4	5
2	1	5	4	3
2	3	4	1	5
3	2	1	5	4
3	5	4	2	1
4	3	2	5	1
4	5	1	3	2
5	1	3	2	4
5	4	2	1	3

$$\tilde{P}(y) = 9 + 14y^4 + 6y^5 + 6y^6 + 10y^7$$

Rigid code

1	2	3	4	5
1	3	2	5	4
1	4	5	3	2
2	3	4	1	5
2	4	1	5	3
3	5	4	2	1
4	1	5	2	3
4	5	3	1	2
5	2	1	3	4

$$\tilde{P}(y) = 9 + 15y^4 + 6y^5 + 5y^6 + 10y^7$$

Rigid code

1	2	3	4	5
1	5	2	3	4
2	3	1	5	4
2	5	4	1	3
3	1	4	5	2
3	2	5	1	4
4	3	5	2	1
5	2	4	3	1
5	4	1	2	3

$$\tilde{P}(y) = 9 + 14y^4 + 9y^5 + 6y^6 + 7y^7$$

Rigid code

1	2	3	4	5
1	3	5	2	4
2	3	4	1	5
2	4	3	5	1
3	2	1	5	4
3	5	4	2	1
4	1	5	3	2
5	3	1	4	2
5	4	2	1	3

$$\tilde{P}(y) = 9 + 15y^4 + 6y^5 + 5y^6 + 10y^7$$

Rigid code

1	2	3	4	5
2	4	1	3	5
2	5	3	1	4
3	1	4	2	5
3	2	1	5	4
4	3	5	1	2
4	5	1	2	3
5	1	2	4	3
5	2	4	3	1

$$\tilde{P}(y) = 9 + 15y^4 + 8y^5 + 5y^6 + 8y^7$$

Rigid code

1	2	3	4	5
1	4	5	3	2
2	3	1	5	4
2	5	4	3	1
3	5	1	4	2
4	1	2	3	5
4	2	5	1	3
5	1	4	2	3
5	3	2	4	1

$$\tilde{P}(y) = 9 + 12y^4 + 10y^5 + 8y^6 + 6y^7$$

Rigid code

1	2	3	4	5
1	4	2	5	3
2	3	5	4	1
3	2	1	5	4
3	5	4	2	1
4	2	5	1	3
4	5	1	3	2
5	1	2	3	4
5	4	3	1	2

$$\tilde{P}(y) = 9 + 14y^4 + 7y^5 + 6y^6 + 9y^7$$

Rigid code

1	2	3	4	5
2	3	1	5	4
3	4	2	5	1
3	5	1	4	2
4	1	2	3	5
4	2	5	1	3
4	5	3	2	1
5	1	4	2	3
5	4	3	1	2

$$\tilde{P}(y) = 9 + 16y^4 + 6y^5 + 4y^6 + 10y^7$$

Rigid code

1	2	3	4	5
1	3	2	5	4
2	1	5	4	3
2	5	3	1	4
3	5	4	2	1
4	1	3	5	2
4	3	1	2	5
5	3	4	1	2
5	4	2	3	1

$$\tilde{P}(y) = 9 + 16y^4 + 6y^5 + 4y^6 + 10y^7$$

Rigid code

1	2	3	4	5
1	3	5	2	4
2	1	5	4	3
2	5	3	1	4
3	4	1	5	2
3	5	4	2	1
4	2	5	3	1
4	3	2	1	5
5	1	4	3	2

$$\tilde{P}(y) = 9 + 15y^4 + 6y^5 + 5y^6 + 10y^7$$

Rigid code

1	2	3	4	5
1	4	5	3	2
2	1	4	3	5
2	3	1	5	4
3	2	4	5	1
3	5	1	4	2
4	1	5	2	3
4	5	2	3	1
5	4	2	1	3

$$\tilde{P}(y) = 9 + 14y^4 + 7y^5 + 6y^6 + 9y^7$$

Rigid code

1	2	3	4	5
1	4	2	5	3
2	1	5	3	4
3	2	1	5	4
3	4	5	1	2
3	5	4	2	1
4	3	2	1	5
4	5	1	3	2
5	2	4	1	3

$$\tilde{P}(y) = 9 + 15y^4 + 8y^5 + 5y^6 + 8y^7$$

Rigid code

1	2	3	4	5
1	3	5	2	4
2	1	5	4	3
2	5	1	3	4
3	4	1	5	2
3	5	4	2	1
4	2	5	3	1
4	3	2	1	5
5	1	4	3	2

$$\tilde{P}(y) = 9 + 15y^4 + 7y^5 + 5y^6 + 9y^7$$

Rigid code

1	2	3	4	5
2	1	4	5	3
2	3	5	4	1
3	2	1	5	4
3	5	4	2	1
4	2	5	1	3
4	5	1	3	2
5	3	2	1	4
5	4	1	2	3

$$\tilde{P}(y) = 9 + 14y^4 + 9y^5 + 6y^6 + 7y^7$$

Rigid code

1	2	3	4	5
1	4	5	2	3
2	4	1	3	5
2	5	3	1	4
3	1	4	2	5
3	2	1	5	4
4	3	5	1	2
5	1	2	4	3
5	2	4	3	1

$$\tilde{P}(y) = 9 + 14y^4 + 8y^5 + 6y^6 + 8y^7$$

Rigid code

1	2	3	4	5
1	5	2	3	4
2	4	3	5	1
3	2	1	5	4
3	4	2	1	5
4	3	5	1	2
4	5	1	2	3
5	1	2	4	3
5	2	4	3	1

$$\tilde{P}(y) = 9 + 13y^4 + 9y^5 + 7y^6 + 7y^7$$

Rigid code

1	2	3	4	5
1	3	4	5	2
2	1	4	3	5
2	4	5	1	3
3	2	1	5	4
3	5	4	2	1
4	3	2	1	5
4	5	1	3	2
5	1	2	4	3

$$\tilde{P}(y) = 9 + 14y^4 + 8y^5 + 6y^6 + 8y^7$$

Rigid code

1	2	3	4	5
1	3	5	2	4
2	1	5	4	3
2	3	4	1	5
3	2	1	5	4
3	5	4	2	1
4	3	2	5	1
4	5	1	3	2
5	4	2	1	3

$$\tilde{P}(y) = 9 + 13y^4 + 8y^5 + 7y^6 + 8y^7$$

Rigid code

1	2	3	4	5
1	4	2	5	3
2	1	4	3	5
2	3	1	5	4
3	2	5	1	4
3	5	4	2	1
4	3	2	1	5
4	5	1	3	2
5	1	3	2	4

$$\tilde{P}(y) = 9 + 13y^4 + 9y^5 + 7y^6 + 7y^7$$

Rigid code

1	2	3	4	5
1	3	5	2	4
2	1	5	4	3
2	5	3	1	4
3	2	1	5	4
3	5	4	2	1
4	3	2	5	1
4	5	1	3	2
5	4	2	1	3

$$\tilde{P}(y) = 9 + 14y^4 + 8y^5 + 6y^6 + 8y^7$$

Rigid code

1	2	3	4	5
1	3	5	2	4
2	1	5	4	3
2	3	4	1	5
2	4	3	5	1
3	2	1	5	4
3	5	4	2	1
4	5	1	3	2
5	4	2	1	3

$$\tilde{P}(y) = 9 + 15y^4 + 6y^5 + 5y^6 + 10y^7$$

Rigid code

1	2	3	4	5
1	3	5	2	4
2	1	4	3	5
2	4	5	1	3
3	2	1	5	4
3	5	4	2	1
4	3	2	1	5
4	5	1	3	2
5	1	2	4	3

$$\tilde{P}(y) = 9 + 13y^4 + 8y^5 + 7y^6 + 8y^7$$

Rigid code

1	2	3	4	5
2	1	4	3	5
2	3	1	5	4
3	1	5	2	4
3	5	2	4	1
4	1	3	5	2
4	2	5	3	1
5	3	4	1	2
5	4	1	2	3

$$\tilde{P}(y) = 9 + 14y^4 + 7y^5 + 6y^6 + 9y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(2,3)(4,5)} \mathbf{d}_{(1,4)(3,5)},$$

1	2	3	4	5
1	5	2	3	4
2	3	1	5	4
2	5	4	1	3
3	1	4	5	2
3	4	2	1	5
4	3	5	2	1
5	2	4	3	1
5	4	1	2	3

$$\tilde{P}(y) = 9 + 12y^4 + 9y^5 + 8y^6 + 7y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,2)(3,5)} \mathbf{d}_{(1,4)(2,5)},$$

1	2	3	4	5
1	4	2	5	3
2	4	5	3	1
2	5	3	1	4
3	5	4	2	1
4	1	5	2	3
4	3	1	5	2
5	2	1	3	4
5	3	2	4	1

$$\tilde{P}(y) = 9 + 14y^4 + 7y^5 + 6y^6 + 9y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(2,5)(3,4)} \mathbf{d}_{(1,3)(2,4)},$$

1	2	3	4	5
1	4	2	5	3
2	3	5	1	4
3	1	5	4	2
3	2	1	5	4
3	5	4	2	1
4	5	1	3	2
5	1	2	3	4
5	2	4	1	3

$$\tilde{P}(y) = 9 + 16y^4 + 7y^5 + 4y^6 + 9y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,5)(2,3)} \mathbf{d}_{(1,2)(3,4)},$$

1	2	3	4	5
2	1	4	3	5
2	3	1	5	4
3	1	5	2	4
3	5	2	4	1
4	1	2	5	3
4	2	5	3	1
5	3	4	1	2
5	4	1	2	3

$$\tilde{P}(y) = 9 + 14y^4 + 7y^5 + 6y^6 + 9y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(2,3)(4,5)} \mathbf{d}_{(1,4)(3,5)},$$

Invertible codes

1	2	3	4	5
1	3	2	5	4
2	1	5	4	3
2	5	3	1	4
3	4	1	5	2
3	5	4	2	1
4	3	5	1	2
5	1	4	3	2
5	4	2	1	3

$$\tilde{P}(y) = 9 + 14y^4 + 8y^5 + 6y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,4)(2,5)} \mathfrak{d}_{(1,4)(2,5)} \mathfrak{S},$$

1	2	3	4	5
1	4	5	2	3
2	1	4	5	3
2	3	5	4	1
2	4	1	3	5
3	2	1	5	4
3	5	4	2	1
4	1	5	3	2
5	3	2	1	4

$$\tilde{P}(y) = 9 + 13y^4 + 9y^5 + 7y^6 + 7y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,2,3,5,4)} \mathfrak{d}_{(1,2,3,5,4)} \mathfrak{S},$$

1	2	3	4	5
1	3	2	5	4
2	1	5	4	3
2	5	1	3	4
3	4	1	5	2
3	5	4	2	1
4	3	5	1	2
5	1	4	3	2
5	4	2	1	3

$$\tilde{P}(y) = 9 + 11y^4 + 10y^5 + 7y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,4)(2,5)} \mathfrak{d}_{(1,4)(2,5)} \mathfrak{S},$$

1	2	3	4	5
1	3	5	2	4
2	3	4	1	5
3	2	1	5	4
3	5	4	2	1
4	1	5	3	2
4	3	2	5	1
5	3	1	4	2
5	4	2	1	3

$$\tilde{P}(y) = 9 + 15y^4 + 8y^5 + 5y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,2,3,5,4)} \mathfrak{d}_{(1,2,3,5,4)} \mathfrak{S},$$

1	2	3	4	5
1	4	5	3	2
2	1	4	3	5
2	3	5	4	1
3	2	1	5	4
3	5	4	2	1
4	1	5	2	3
4	5	3	1	2
5	3	2	1	4

$$\tilde{P}(y) = 9 + 11y^4 + 10y^5 + 9y^6 + 6y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,2,3,5,4)} \mathfrak{d}_{(1,2,3,5,4)} \mathfrak{S},$$

1	2	3	4	5
1	5	2	3	4
2	4	1	3	5
3	1	4	2	5
3	2	1	5	4
4	3	5	1	2
4	5	1	2	3
5	1	2	4	3
5	2	4	3	1

$$\tilde{P}(y) = 9 + 16y^4 + 8y^5 + 4y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,4,5,3)} \mathfrak{d}_{(1,4,5,3)} \mathfrak{S},$$

1	2	3	4	5
1	3	4	5	2
1	4	5	2	3
2	3	5	4	1
3	2	1	5	4
3	5	4	2	1
4	1	5	3	2
4	3	1	2	5
5	3	2	1	4

$$\tilde{P}(y) = 9 + 15y^4 + 11y^5 + 5y^6 + 5y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,2,3,5,4)} \mathfrak{d}_{(1,2,3,5,4)} \mathfrak{S},$$

1	2	3	4	5
2	1	3	5	4
2	3	4	1	5
2	5	1	4	3
3	2	5	1	4
3	5	4	2	1
4	1	5	2	3
4	3	1	5	2
5	4	2	3	1

$$\tilde{P}(y) = 9 + 15y^4 + 6y^5 + 5y^6 + 10y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,2,4,3,5)} \mathfrak{d}_{(1,2,4,3,5)} \mathfrak{S},$$

1	2	3	4	5
1	3	5	2	4
2	3	4	1	5
2	4	3	5	1
2	5	1	4	3
3	2	1	5	4
3	5	4	2	1
4	1	5	3	2
5	4	2	1	3

$$\tilde{P}(y) = 9 + 15y^4 + 6y^5 + 5y^6 + 10y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,2,3,5,4)} \mathfrak{d}_{(1,2,3,5,4)} \mathfrak{S},$$

Size : 10

Non-invertible codes

1	2	3	4	5
1	3	2	5	4
2	1	4	3	5
2	3	5	4	1
2	4	1	5	3
3	4	2	1	5
3	5	4	2	1
4	5	1	3	2
5	1	3	2	4
5	2	4	1	3

$$\tilde{P}(y) = 10 + 21y^4 + 7y^5 + 4y^6 + 13y^7$$

Rigid code

1	2	3	4	5
1	5	2	3	4
2	3	1	5	4
2	5	4	1	3
3	2	4	5	1
3	5	1	4	2
4	1	5	3	2
4	3	2	1	5
4	5	3	2	1
5	4	1	2	3

$$\tilde{P}(y) = 10 + 18y^4 + 12y^5 + 7y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,4)} \mathfrak{d}_{(1,3)(4,5)},$$

1	2	3	4	5
1	3	4	5	2
2	1	3	5	4
2	3	5	4	1
3	5	4	2	1
4	2	5	1	3
4	5	1	3	2
5	1	2	4	3
5	3	1	2	4
5	4	3	1	2

$$\tilde{P}(y) = 10 + 20y^4 + 10y^5 + 5y^6 + 10y^7$$

Rigid code

1	2	3	4	5
1	3	2	5	4
1	4	5	2	3
2	1	4	3	5
3	1	5	4	2
3	5	4	2	1
4	5	1	3	2
5	1	3	2	4
5	2	4	1	3
5	4	2	3	1

$$\tilde{P}(y) = 10 + 19y^4 + 12y^5 + 6y^6 + 8y^7$$

Rigid code

1	2	3	4	5
1	4	5	3	2
2	3	1	5	4
3	2	4	5	1
3	4	2	1	5
3	5	1	4	2
4	1	3	5	2
4	2	5	1	3
5	1	4	2	3
5	3	2	4	1

$$\tilde{P}(y) = 10 + 18y^4 + 12y^5 + 7y^6 + 8y^7$$

Rigid code

1	2	3	4	5
2	1	5	4	3
2	3	1	5	4
3	1	4	2	5
3	5	2	4	1
4	1	3	5	2
4	2	5	3	1
5	1	2	3	4
5	3	4	1	2
5	4	1	2	3

$$\tilde{P}(y) = 10 + 20y^4 + 10y^5 + 4y^6 + 11y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(2,3)(4,5)} \mathfrak{d}_{(1,4)(3,5)},$$

1	2	3	4	5
1	5	2	3	4
2	3	1	5	4
2	5	4	1	3
3	1	4	2	5
3	4	5	1	2
4	1	2	5	3
4	2	5	3	1
5	3	2	4	1
5	4	1	2	3

$$\tilde{P}(y) = 10 + 19y^4 + 8y^5 + 6y^6 + 12y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,4)(2,3)}\mathfrak{d}_{(1,2)(3,5)},$$

1	2	3	4	5
1	4	2	5	3
2	3	5	4	1
2	5	3	1	4
3	2	1	5	4
3	5	4	2	1
4	2	5	1	3
4	5	1	3	2
5	1	2	3	4
5	3	4	1	2

$$\tilde{P}(y) = 10 + 19y^4 + 10y^5 + 5y^6 + 11y^7$$

Rigid code

1	2	3	4	5
1	4	5	2	3
2	3	1	5	4
2	5	4	1	3
3	2	4	5	1
3	5	1	4	2
4	1	5	3	2
4	3	2	1	5
5	1	3	2	4
5	4	2	3	1

$$\tilde{P}(y) = 10 + 12y^4 + 13y^5 + 12y^6 + 8y^7$$

Order of the stab. :4

Gen. of the stab. :

$$\mathfrak{d}_{(1,4)(2,3)},$$

$$\mathfrak{g}_{(1,4)(2,3)}\mathfrak{d}_{(1,4)(2,3)},$$

1	2	3	4	5
1	5	2	3	4
2	3	1	5	4
2	5	4	1	3
3	1	4	2	5
3	4	5	1	2
4	1	3	5	2
4	2	5	3	1
5	3	2	4	1
5	4	1	2	3

$$\tilde{P}(y) = 10 + 16y^4 + 9y^5 + 8y^6 + 12y^7$$

Order of the stab. :4

Gen. of the stab. :

$$\mathfrak{d}_{(1,5)(2,3)},$$

$$\mathfrak{g}_{(1,4)(2,3)}\mathfrak{d}_{(1,2)(3,5)},$$

1	2	3	4	5
1	4	5	3	2
2	3	1	5	4
3	2	4	5	1
3	5	1	4	2
4	1	2	3	5
4	2	5	1	3
4	5	3	2	1
5	1	4	2	3
5	3	2	4	1

$$\tilde{P}(y) = 10 + 19y^4 + 10y^5 + 6y^6 + 10y^7$$

Rigid code

1	2	3	4	5
1	4	2	5	3
2	1	4	3	5
2	3	1	5	4
3	1	5	4	2
3	5	4	2	1
4	2	5	1	3
4	5	1	3	2
5	1	3	2	4
5	3	2	4	1

$$\tilde{P}(y) = 10 + 17y^4 + 10y^5 + 8y^6 + 10y^7$$

Rigid code

1	2	3	4	5
1	5	2	3	4
2	1	5	4	3
2	3	1	5	4
3	1	4	2	5
3	4	5	1	2
4	1	3	5	2
4	2	5	3	1
4	3	2	1	5
5	4	1	2	3

$$\tilde{P}(y) = 10 + 18y^4 + 11y^5 + 6y^6 + 10y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(1,4)(2,3)} \mathfrak{d}_{(1,2)(3,5)}$ ,

1	2	3	4	5
1	4	5	2	3
1	5	2	3	4
2	4	3	5	1
2	5	4	1	3
3	2	1	5	4
3	4	2	1	5
4	3	5	1	2
5	1	2	4	3
5	2	4	3	1

$$\tilde{P}(y) = 10 + 20y^4 + 11y^5 + 5y^6 + 9y^7$$

Rigid code

1	2	3	4	5
1	3	5	2	4
2	1	3	5	4
2	3	4	1	5
2	4	5	3	1
3	1	5	4	2
3	5	4	2	1
4	3	2	5	1
4	5	1	3	2
5	4	2	1	3

$$\tilde{P}(y) = 10 + 19y^4 + 10y^5 + 6y^6 + 10y^7$$

Rigid code

1	2	3	4	5
1	3	4	5	2
2	1	3	5	4
2	4	5	3	1
3	2	5	1	4
3	5	4	2	1
4	1	5	2	3
4	5	1	3	2
5	3	1	2	4
5	4	2	1	3

$$\tilde{P}(y) = 10 + 18y^4 + 10y^5 + 6y^6 + 11y^7$$

Rigid code

1	2	3	4	5
1	4	5	2	3
1	5	2	3	4
2	1	3	5	4
3	4	2	1	5
3	5	4	2	1
4	1	5	3	2
4	3	2	5	1
5	1	2	4	3
5	3	1	2	4

$$\tilde{P}(y) = 10 + 18y^4 + 14y^5 + 6y^6 + 7y^7$$

Rigid code

1	2	3	4	5
1	5	2	3	4
2	1	5	4	3
2	4	1	3	5
3	4	5	1	2
3	5	4	2	1
4	2	5	3	1
4	3	2	1	5
5	1	4	3	2
5	3	1	2	4

$$\tilde{P}(y) = 10 + 18y^4 + 13y^5 + 6y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{d}_{(1,2)(3,5)}$ ,

1	2	3	4	5
1	3	2	5	4
1	5	4	2	3
2	4	1	5	3
2	5	3	1	4
3	4	5	2	1
3	5	1	4	2
4	3	5	1	2
5	1	2	4	3
5	2	4	3	1

$$\tilde{P}(y) = 10 + 19y^4 + 10y^5 + 6y^6 + 10y^7$$

Rigid code

1	2	3	4	5
1	4	5	2	3
2	3	1	5	4
2	5	4	1	3
3	2	5	1	4
3	5	1	4	2
4	1	5	3	2
4	3	2	1	5
5	1	3	2	4
5	4	2	3	1

$$\tilde{P}(y) = 10 + 15y^4 + 13y^5 + 9y^6 + 8y^7$$

Rigid code

1	2	3	4	5
1	4	2	5	3
2	3	1	5	4
2	5	4	3	1
3	4	5	2	1
3	5	1	4	2
4	1	3	5	2
4	2	5	1	3
5	1	4	2	3
5	3	2	4	1

$$\tilde{P}(y) = 10 + 17y^4 + 12y^5 + 8y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(1,3)(4,5)}\mathfrak{d}_{(1,2)}$ ,

1	2	3	4	5
1	5	2	3	4
2	1	4	5	3
2	3	5	1	4
3	2	1	5	4
3	5	4	2	1
4	1	5	3	2
4	3	1	2	5
5	1	3	2	4
5	4	2	1	3

$$\tilde{P}(y) = 10 + 22y^4 + 8y^5 + 2y^6 + 13y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(1,2)(3,5)}\mathfrak{d}_{(1,3)(2,4)}$ ,

1	2	3	4	5
1	4	5	2	3
2	1	4	3	5
2	3	1	5	4
3	2	5	1	4
3	5	4	2	1
4	3	2	1	5
4	5	1	3	2
5	1	2	4	3
5	4	3	1	2

$$\tilde{P}(y) = 10 + 16y^4 + 11y^5 + 9y^6 + 9y^7$$

Rigid code

1	2	3	4	5
1	5	2	3	4
2	3	1	5	4
2	5	4	1	3
3	1	4	2	5
3	4	5	1	2
4	1	3	5	2
4	2	5	3	1
4	3	2	1	5
5	4	1	2	3

$$\tilde{P}(y) = 10 + 17y^4 + 11y^5 + 7y^6 + 10y^7$$

Rigid code

Invertible codes

1	2	3	4	5
1	3	2	5	4
2	1	4	3	5
2	4	1	5	3
3	1	5	4	2
3	5	4	2	1
4	5	1	3	2
5	1	3	2	4
5	2	4	1	3
5	4	2	3	1

$$\tilde{P}(y) = 10 + 18y^4 + 11y^5 + 7y^6 + 9y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,5,2,3,4)}\mathfrak{d}_{(1,5,2,3,4)}\mathfrak{S},$$

1	2	3	4	5
2	3	1	5	4
2	5	4	1	3
3	1	4	2	5
3	2	5	1	4
3	5	2	4	1
4	3	5	2	1
4	5	1	3	2
5	1	2	3	4
5	4	1	2	3

$$\tilde{P}(y) = 10 + 21y^4 + 9y^5 + 3y^6 + 12y^7$$

Order of the stab. :6

Gen. of the stab. :

$$\mathfrak{g}_{(1,3)(2,5)}\mathfrak{d}_{(1,3)(2,5)}\mathfrak{S},$$

$$\mathfrak{g}_{(1,3)(4,5)}\mathfrak{d}_{(1,3)(4,5)}\mathfrak{S},$$

1	2	3	4	5
1	5	2	3	4
2	3	4	1	5
3	2	1	5	4
3	5	4	2	1
4	1	5	3	2
4	3	2	5	1
5	1	3	2	4
5	3	1	4	2
5	4	2	1	3

$$\tilde{P}(y) = 10 + 21y^4 + 8y^5 + 4y^6 + 12y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,2,3,5,4)}\mathfrak{d}_{(1,2,3,5,4)}\mathfrak{S},$$

1	2	3	4	5
2	1	5	4	3
2	3	1	5	4
3	1	4	2	5
3	2	5	1	4
3	5	2	4	1
4	3	2	1	5
4	5	1	3	2
5	2	4	3	1
5	4	1	2	3

$$\tilde{P}(y) = 10 + 18y^4 + 12y^5 + 6y^6 + 9y^7$$

Order of the stab. :6

Gen. of the stab. :

$$\mathfrak{g}_{(1,3)(2,5)}\mathfrak{d}_{(1,3)(2,5)}\mathfrak{S},$$

$$\mathfrak{g}_{(2,4,5)}\mathfrak{d}_{(2,5,4)},$$

1	2	3	4	5
1	4	2	5	3
2	3	1	5	4
2	4	5	3	1
3	1	5	4	2
3	5	4	2	1
4	2	5	1	3
4	5	1	3	2
5	1	3	2	4
5	3	2	4	1

$$\tilde{P}(y) = 10 + 17y^4 + 11y^5 + 8y^6 + 9y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,3,4,5)}\mathfrak{d}_{(1,3,4,5)}\mathfrak{S},$$

1	2	3	4	5
2	1	5	4	3
3	2	1	5	4
3	4	5	1	2
3	5	4	2	1
4	1	3	5	2
4	2	5	3	1
4	3	1	2	5
4	5	2	1	3
5	3	2	4	1

$$\tilde{P}(y) = 10 + 18y^4 + 15y^5 + 6y^6 + 6y^7$$

Order of the stab. :6

Gen. of the stab. :

$$\mathfrak{g}_{(1,4,3)(2,5)}\mathfrak{d}_{(1,4,3,2)}\mathfrak{S},$$

1	2	3	4	5
1	3	5	2	4
2	1	5	4	3
2	4	3	5	1
3	2	1	5	4
3	4	5	1	2
3	5	4	2	1
4	2	5	3	1
5	2	4	1	3
5	3	2	4	1

$$\tilde{P}(y) = 10 + 24y^4 + 12y^5 + 9y^7$$

Order of the stab. :12

Gen. of the stab. :

$$\mathfrak{g}_{(1,3,5,2)} \mathfrak{d}_{(1,3,5,2)} \mathfrak{S},$$

$$\mathfrak{g}_{(1,4,3,2)} \mathfrak{d}_{(1,4,3)(2,5)} \mathfrak{S},$$

1	2	3	4	5
1	3	4	5	2
2	1	5	4	3
2	5	3	1	4
3	1	2	5	4
3	4	5	1	2
3	5	4	2	1
4	5	1	3	2
5	2	4	1	3
5	3	2	4	1

$$\tilde{P}(y) = 10 + 19y^4 + 12y^5 + 6y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,3)} \mathfrak{d}_{(1,3)} \mathfrak{S},$$

1	2	3	4	5
2	3	1	5	4
2	4	5	3	1
3	1	4	2	5
3	2	5	1	4
3	5	2	4	1
4	1	2	5	3
4	5	1	3	2
5	3	4	1	2
5	4	1	2	3

$$\tilde{P}(y) = 10 + 18y^4 + 9y^5 + 6y^6 + 12y^7$$

Order of the stab. :6

Gen. of the stab. :

$$\mathfrak{g}_{(1,3)(4,5)} \mathfrak{d}_{(1,3)(4,5)} \mathfrak{S},$$

$$\mathfrak{g}_{(1,3)(2,4)} \mathfrak{d}_{(1,3)(2,4)} \mathfrak{S},$$

1	2	3	4	5
1	3	2	5	4
1	5	4	2	3
2	1	5	3	4
2	4	1	5	3
3	4	5	2	1
3	5	1	4	2
4	3	5	1	2
5	1	2	4	3
5	2	4	3	1

$$\tilde{P}(y) = 10 + 18y^4 + 11y^5 + 7y^6 + 9y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,4)(3,5)} \mathfrak{d}_{(1,4)(3,5)} \mathfrak{S},$$

1	2	3	4	5
1	4	2	5	3
2	1	4	3	5
2	3	1	5	4
3	1	5	4	2
3	5	4	2	1
4	2	5	1	3
4	5	1	3	2
5	1	3	2	4
5	3	4	1	2

$$\tilde{P}(y) = 10 + 17y^4 + 11y^5 + 8y^6 + 9y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,3,4,5)} \mathfrak{d}_{(1,3,4,5)} \mathfrak{S},$$

1	2	3	4	5
2	3	1	5	4
3	1	4	2	5
3	2	5	1	4
3	5	2	4	1
4	1	2	5	3
4	3	5	2	1
4	5	1	3	2
5	3	4	1	2
5	4	1	2	3

$$\tilde{P}(y) = 10 + 19y^4 + 11y^5 + 5y^6 + 10y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,3)(2,4)} \mathfrak{d}_{(1,3)(2,4)} \mathfrak{S},$$

1	2	3	4	5
1	3	4	5	2
2	3	5	4	1
2	4	1	5	3
3	5	4	2	1
4	1	5	3	2
4	3	1	2	5
5	1	3	2	4
5	2	4	1	3
5	4	2	3	1

$$\tilde{P}(y) = 10 + 21y^4 + 9y^5 + 3y^6 + 12y^7$$

Order of the stab. :6

Gen. of the stab. :

$$\mathfrak{g}_{(1,5)(2,3)} \mathfrak{d}_{(1,5)(2,3)} \mathfrak{s},$$

$$\mathfrak{g}_{(1,4,2)} \mathfrak{d}_{(3,5,4)},$$

1	2	3	4	5
1	5	2	3	4
2	3	1	5	4
3	2	4	5	1
3	4	2	1	5
3	5	1	4	2
4	1	5	3	2
4	5	3	2	1
5	3	4	1	2
5	4	1	2	3

$$\tilde{P}(y) = 10 + 16y^4 + 13y^5 + 8y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,3)(2,5)} \mathfrak{d}_{(1,3)(2,5)} \mathfrak{s},$$

1	2	3	4	5
1	4	5	3	2
2	3	5	1	4
3	1	4	2	5
3	4	2	5	1
3	5	1	4	2
4	2	1	5	3
4	5	3	2	1
5	1	2	4	3
5	2	4	3	1

$$\tilde{P}(y) = 10 + 21y^4 + 8y^5 + 4y^6 + 12y^7$$

Order of the stab. :8

Gen. of the stab. :

$$\mathfrak{g}_{(1,4,3,5,2)} \mathfrak{d}_{(1,4,3,5,2)} \mathfrak{s},$$

$$\mathfrak{g}_{(1,2,3,5)} \mathfrak{d}_{(1,2,3,5)} \mathfrak{s},$$

1	2	3	4	5
2	1	4	5	3
2	4	5	3	1
3	1	5	4	2
3	2	1	5	4
3	5	4	2	1
4	2	5	1	3
4	5	1	3	2
5	3	2	1	4
5	4	1	2	3

$$\tilde{P}(y) = 10 + 19y^4 + 11y^5 + 6y^6 + 9y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,5)} \mathfrak{d}_{(1,5)} \mathfrak{s},$$

1	2	3	4	5
1	3	4	5	2
2	3	5	4	1
2	4	1	5	3
2	5	3	1	4
3	4	2	1	5
3	5	4	2	1
4	1	5	3	2
5	2	4	1	3
5	3	1	2	4

$$\tilde{P}(y) = 10 + 21y^4 + 8y^5 + 4y^6 + 12y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,4)(2,3)} \mathfrak{d}_{(1,4)(2,3)} \mathfrak{s},$$

1	2	3	4	5
1	4	5	3	2
2	3	4	1	5
2	4	1	5	3
3	1	2	5	4
3	5	4	2	1
4	1	5	2	3
4	5	3	1	2
5	2	1	3	4
5	3	2	4	1

$$\tilde{P}(y) = 10 + 17y^4 + 8y^5 + 8y^6 + 12y^7$$

Order of the stab. :16

Gen. of the stab. :

$$\mathfrak{g}_{(1,4)(3,5)} \mathfrak{d}_{(2,4)},$$

$$\mathfrak{g}_{(1,2)(3,4)} \mathfrak{d}_{(1,2)(3,4)} \mathfrak{s},$$

$$\mathfrak{g}_{(1,2,4,5)} \mathfrak{d}_{(1,2,4,5)} \mathfrak{s},$$

1	2	3	4	5
1	4	5	3	2
2	1	4	3	5
2	3	1	5	4
3	4	2	1	5
3	5	4	2	1
4	1	5	2	3
4	5	3	1	2
5	2	4	1	3
5	3	2	4	1

$$\tilde{P}(y) = 10 + 18y^4 + 10y^5 + 7y^6 + 10y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,2,3,5,4)} \mathfrak{d}_{(1,2,3,5,4)} \mathfrak{S},$$

1	2	3	4	5
1	3	2	5	4
2	1	4	3	5
2	4	1	5	3
2	5	3	1	4
3	1	5	4	2
3	4	2	1	5
3	5	4	2	1
4	5	1	3	2
5	2	4	1	3

$$\tilde{P}(y) = 10 + 20y^4 + 11y^5 + 5y^6 + 9y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,5,2,3,4)} \mathfrak{d}_{(1,5,2,3,4)} \mathfrak{S},$$

1	2	3	4	5
1	3	2	5	4
2	1	5	3	4
2	4	1	5	3
3	1	4	5	2
3	4	2	1	5
3	5	1	2	4
4	3	5	1	2
5	1	2	4	3
5	2	4	3	1

$$\tilde{P}(y) = 10 + 18y^4 + 12y^5 + 7y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,4,5,3)} \mathfrak{d}_{(1,4,5,3)} \mathfrak{S},$$

1	2	3	4	5
1	5	2	3	4
2	4	5	1	3
3	2	1	5	4
3	5	4	1	2
4	1	5	3	2
4	3	2	1	5
4	5	1	2	3
5	1	2	4	3
5	2	4	3	1

$$\tilde{P}(y) = 10 + 19y^4 + 13y^5 + 5y^6 + 8y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,4,3,5)} \mathfrak{d}_{(1,4,3,5)} \mathfrak{S},$$

Size : 11

Non-invertible codes

1	2	3	4	5
1	3	2	5	4
1	4	5	3	2
2	1	4	3	5
2	4	3	5	1
2	5	1	4	3
3	5	4	2	1
4	1	5	2	3
4	5	3	1	2
5	2	1	3	4
5	4	2	1	3

$$\tilde{P}(y) = 11 + 24y^4 + 13y^5 + 6y^6 + 12y^7$$

Order of the stab. : 2

Gen. of the stab. :

$$\mathfrak{g}_{(1,5)(2,4)} \mathfrak{d}_{(1,2)(4,5)},$$

1	2	3	4	5
1	3	2	5	4
2	1	4	3	5
2	3	5	4	1
2	4	1	5	3
2	5	3	1	4
3	4	2	1	5
3	5	4	2	1
4	1	5	2	3
4	5	1	3	2
5	2	4	1	3

$$\tilde{P}(y) = 11 + 25y^4 + 13y^5 + 5y^6 + 12y^7$$

Rigid code

1	2	3	4	5
1	3	2	5	4
1	4	5	2	3
2	3	4	1	5
2	5	1	3	4
3	2	5	1	4
3	4	1	5	2
3	5	4	2	1
4	1	2	3	5
4	5	3	1	2
5	1	3	2	4

$$\tilde{P}(y) = 11 + 26y^4 + 14y^5 + 4y^6 + 11y^7$$

Rigid code

1	2	3	4	5
1	4	2	5	3
2	1	5	4	3
2	4	1	3	5
2	5	3	1	4
3	4	5	1	2
3	5	4	2	1
4	2	5	3	1
4	3	2	1	5
5	1	4	3	2
5	3	1	2	4

$$\tilde{P}(y) = 11 + 24y^4 + 12y^5 + 6y^6 + 13y^7$$

Rigid code

1	2	3	4	5
1	3	2	5	4
1	4	5	3	2
2	3	4	1	5
2	4	3	5	1
2	5	1	4	3
3	5	4	2	1
4	1	5	2	3
4	5	3	1	2
5	2	1	3	4
5	4	2	1	3

$$\tilde{P}(y) = 11 + 24y^4 + 13y^5 + 6y^6 + 12y^7$$

Rigid code

1	2	3	4	5
1	4	2	5	3
2	4	5	3	1
2	5	3	1	4
3	2	1	5	4
3	5	4	2	1
4	1	5	2	3
4	3	2	1	5
4	5	1	3	2
5	1	2	3	4
5	2	4	1	3

$$\tilde{P}(y) = 11 + 25y^4 + 13y^5 + 5y^6 + 12y^7$$

Rigid code

1	2	3	4	5
1	5	4	3	2
2	1	5	4	3
2	3	1	5	4
3	1	4	2	5
3	4	5	1	2
4	1	3	5	2
4	2	5	3	1
4	5	2	1	3
5	1	2	3	4
5	4	1	2	3

$$\tilde{P}(y) = 11 + 24y^4 + 14y^5 + 6y^6 + 11y^7$$

Rigid code

1	2	3	4	5
1	5	4	2	3
2	3	5	1	4
2	4	1	3	5
3	2	1	5	4
3	4	5	2	1
4	1	5	3	2
4	3	2	5	1
5	1	2	4	3
5	2	4	3	1
5	4	3	1	2

$$\tilde{P}(y) = 11 + 22y^4 + 14y^5 + 8y^6 + 11y^7$$

Rigid code

1	2	3	4	5
1	3	4	5	2
1	4	5	2	3
2	1	4	3	5
2	3	5	1	4
2	4	3	5	1
3	2	1	5	4
3	4	2	1	5
3	5	4	2	1
4	5	1	3	2
5	1	2	4	3

$$\tilde{P}(y) = 11 + 24y^4 + 13y^5 + 6y^6 + 12y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,3)(4,5)}\mathfrak{d}_{(2,4)(3,5)}$$

### Invertible codes

1	2	3	4	5
1	4	5	3	2
2	1	5	4	3
2	3	1	5	4
3	2	4	5	1
3	4	2	1	5
3	5	1	4	2
4	1	3	5	2
4	5	2	3	1
5	3	4	1	2
5	4	1	2	3

$$\tilde{P}(y) = 11 + 24y^4 + 14y^5 + 6y^6 + 11y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,3)(2,5)}\mathfrak{d}_{(1,3)(2,5)}\mathfrak{S},$$

1	2	3	4	5
1	4	5	3	2
2	1	4	3	5
2	3	5	1	4
2	5	1	4	3
3	2	1	5	4
3	5	4	2	1
4	1	5	2	3
4	3	2	5	1
4	5	3	1	2
5	4	2	1	3

$$\tilde{P}(y) = 11 + 22y^4 + 14y^5 + 6y^6 + 13y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,5,3,4)}\mathfrak{d}_{(1,5,3,4)}\mathfrak{S},$$

1	2	3	4	5
1	4	5	3	2
2	3	4	1	5
2	4	3	5	1
2	5	1	4	3
3	1	2	5	4
3	5	4	2	1
4	1	5	2	3
4	5	3	1	2
5	2	1	3	4
5	3	2	4	1

$$\tilde{P}(y) = 11 + 20y^4 + 15y^5 + 8y^6 + 12y^7$$

Order of the stab. :8

Gen. of the stab. :

$$\mathfrak{g}_{(1,4,3,5)}\mathfrak{d}_{(2,3,4,5)},$$

$$\mathfrak{g}_{(1,2,4,5)}\mathfrak{d}_{(1,2,4,5)}\mathfrak{S},$$

1	2	3	4	5
1	4	2	5	3
2	3	4	1	5
2	4	5	3	1
2	5	1	4	3
3	2	5	1	4
3	5	4	2	1
4	1	5	2	3
4	3	1	5	2
5	1	2	3	4
5	4	3	1	2

$$\tilde{P}(y) = 11 + 24y^4 + 11y^5 + 6y^6 + 14y^7$$

Order of the stab. :4

Gen. of the stab. :

$$\mathfrak{g}_{(1,4)(3,5)}\mathfrak{d}_{(1,4)(3,5)}\mathfrak{S},$$

$$\mathfrak{g}_{(1,2,4,3,5)}\mathfrak{d}_{(1,2,4,3,5)}\mathfrak{S},$$

1	2	3	4	5
1	3	5	2	4
1	4	2	5	3
2	1	5	4	3
2	5	3	1	4
3	2	1	5	4
3	4	5	1	2
3	5	4	2	1
4	5	1	3	2
5	2	4	1	3
5	3	2	4	1

$$\tilde{P}(y) = 11 + 25y^4 + 14y^5 + 5y^6 + 11y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,3,2,5)}\mathfrak{d}_{(1,3,2,5)}\mathfrak{S},$$

1	2	3	4	5
1	4	5	2	3
2	1	4	5	3
2	3	5	1	4
3	2	1	5	4
3	4	2	1	5
3	5	4	2	1
4	2	5	3	1
4	5	3	1	2
5	1	2	3	4
5	3	1	4	2

$$\tilde{P}(y) = 11 + 24y^4 + 11y^5 + 4y^6 + 16y^7$$

Order of the stab. :4

Gen. of the stab. :

$$\mathfrak{g}_{(1,5)(2,3)}\mathfrak{d}_{(1,2)(3,4)},$$

$$\mathfrak{g}_{(1,5,4,2)}\mathfrak{d}_{(1,5,4,2)}\mathfrak{S},$$

1	2	3	4	5
1	3	2	5	4
2	1	4	3	5
2	4	3	5	1
2	5	1	4	3
3	4	2	1	5
3	5	4	2	1
4	1	5	2	3
4	5	3	1	2
5	2	4	1	3
5	4	1	3	2

$$\tilde{P}(y) = 11 + 25y^4 + 13y^5 + 5y^6 + 12y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(2,4)(3,5)}\mathfrak{d}_{(2,4)(3,5)}\mathfrak{S},$$

1	2	3	4	5
1	3	4	5	2
2	1	4	3	5
2	5	3	1	4
3	2	1	5	4
3	4	2	1	5
3	5	4	2	1
4	1	5	2	3
5	2	4	1	3
5	3	2	4	1
5	4	1	3	2

$$\tilde{P}(y) = 11 + 24y^4 + 14y^5 + 6y^6 + 11y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,5,3,4)}\mathfrak{d}_{(1,5,3,4)}\mathfrak{S},$$

1	2	3	4	5
1	3	2	5	4
2	1	5	4	3
2	3	4	1	5
2	5	1	3	4
3	2	5	1	4
3	4	1	5	2
3	5	4	2	1
4	5	3	1	2
5	1	4	3	2
5	4	2	1	3

$$\tilde{P}(y) = 11 + 24y^4 + 15y^5 + 4y^6 + 12y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,4)(2,5)}\mathfrak{d}_{(1,4)(2,5)}\mathfrak{S},$$

Size : 12

Non-invertible codes

1	2	3	4	5
1	4	2	5	3
2	3	5	4	1
2	5	3	1	4
3	2	1	5	4
3	4	5	1	2
3	5	4	2	1
4	1	5	2	3
4	3	2	1	5
4	5	1	3	2
5	1	2	3	4
5	2	4	1	3

$$\tilde{P}(y) = 12 + 30y^4 + 16y^5 + 6y^6 + 14y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(2,5)}\mathfrak{d}_{(1,5)(2,3)}$ ,

1	2	3	4	5
1	5	4	3	2
2	1	5	4	3
2	3	1	5	4
3	1	4	2	5
3	4	5	1	2
3	5	2	4	1
4	1	3	5	2
4	2	5	3	1
4	3	2	1	5
5	1	2	3	4
5	4	1	2	3

$$\tilde{P}(y) = 12 + 30y^4 + 16y^5 + 6y^6 + 14y^7$$

Order of the stab. :2

Gen. of the stab. :

$\mathfrak{g}_{(2,5)(3,4)}$ ,

1	2	3	4	5
1	5	2	3	4
2	3	5	1	4
2	4	3	5	1
2	5	1	4	3
3	2	1	5	4
3	5	4	2	1
4	2	5	3	1
4	3	1	2	5
4	5	3	1	2
5	1	4	3	2
5	4	2	1	3

$$\tilde{P}(y) = 12 + 31y^4 + 16y^5 + 5y^6 + 14y^7$$

Rigid code

1	2	3	4	5
1	3	4	5	2
1	5	2	3	4
2	3	5	1	4
2	4	1	5	3
3	4	5	2	1
3	5	1	4	2
4	1	5	3	2
4	3	1	2	5
5	1	2	4	3
5	2	4	3	1
5	4	3	1	2

$$\tilde{P}(y) = 12 + 32y^4 + 14y^5 + 4y^6 + 16y^7$$

Order of the stab. :8

Gen. of the stab. :

$\mathfrak{g}_{(1,4)(3,5)}\mathfrak{d}_{(1,2)(3,4)}$ ,

$\mathfrak{g}_{(3,4)}\mathfrak{d}_{(1,3)(2,4)}$ ,

Invertible codes

1	2	3	4	5
1	4	5	2	3
1	5	2	3	4
2	1	4	3	5
2	3	1	5	4
3	2	5	1	4
3	5	4	2	1
4	1	2	5	3
4	5	3	1	2
5	1	3	2	4
5	3	2	4	1
5	4	1	3	2

$$\tilde{P}(y) = 12 + 24y^4 + 22y^5 + 8y^6 + 12y^7$$

Order of the stab. :16

Gen. of the stab. :

$$\mathfrak{g}_{(1,3)(4,5)}\mathfrak{d}_{(1,3)(4,5)}\mathfrak{s},$$

$$\mathfrak{g}_{(1,2,5,3)}\mathfrak{d}_{(1,3,2,4)},$$

$$\mathfrak{g}_{(1,3,5,2)}\mathfrak{d}_{(1,3,2,4)},$$

1	2	3	4	5
1	4	5	3	2
2	1	4	3	5
2	3	5	1	4
2	5	1	4	3
3	2	1	5	4
3	4	2	1	5
3	5	4	2	1
4	1	5	2	3
4	3	2	5	1
4	5	3	1	2
5	2	4	1	3

$$\tilde{P}(y) = 12 + 30y^4 + 17y^5 + 6y^6 + 13y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,5,3,4)}\mathfrak{d}_{(1,5,3,4)}\mathfrak{s},$$

1	2	3	4	5
1	4	5	3	2
2	1	4	3	5
2	3	5	1	4
2	4	3	5	1
2	5	1	4	3
3	1	2	5	4
3	5	4	2	1
4	1	5	2	3
4	5	3	1	2
5	2	1	3	4
5	3	2	4	1

$$\tilde{P}(y) = 12 + 28y^4 + 18y^5 + 8y^6 + 12y^7$$

Order of the stab. :16

Gen. of the stab. :

$$\mathfrak{g}_{(4,5)}\mathfrak{d}_{(2,5)(3,4)},$$

$$\mathfrak{g}_{(1,2,4,5)}\mathfrak{d}_{(1,2,4,5)}\mathfrak{s},$$

1	2	3	4	5
1	4	5	2	3
1	5	2	3	4
2	1	3	5	4
2	3	4	1	5
3	2	5	1	4
3	5	4	2	1
4	1	5	3	2
4	3	2	5	1
5	1	2	4	3
5	3	1	2	4
5	4	3	1	2

$$\tilde{P}(y) = 12 + 30y^4 + 17y^5 + 6y^6 + 13y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,5,4,2,3)}\mathfrak{d}_{(1,5,4,2,3)}\mathfrak{s},$$

1	2	3	4	5
1	3	2	5	4
2	1	5	4	3
2	4	3	5	1
3	4	2	1	5
3	5	4	2	1
4	2	5	3	1
4	3	1	2	5
4	5	3	1	2
5	1	3	2	4
5	2	4	1	3
5	4	1	3	2

$$\tilde{P}(y) = 12 + 32y^4 + 14y^5 + 4y^6 + 16y^7$$

Order of the stab. :4

Gen. of the stab. :

$$\mathfrak{g}_{(1,4)(2,5)}\mathfrak{d}_{(1,4)(2,5)},$$

$\mathfrak{s},$

1	2	3	4	5
1	3	5	2	4
2	1	4	3	5
2	4	3	5	1
2	5	1	4	3
3	1	5	4	2
3	4	2	1	5
3	5	4	2	1
4	2	5	3	1
4	3	1	5	2
5	2	4	1	3
5	3	2	4	1

$$\tilde{P}(y) = 12 + 32y^4 + 16y^5 + 3y^6 + 15y^7$$

Order of the stab. :2

Gen. of the stab. :

$$\mathfrak{g}_{(1,2,3,5,4)}\mathfrak{d}_{(1,2,3,5,4)}\mathfrak{s},$$

Size : 13

Invertible code

1	2	3	4	5
1	4	5	2	3
2	1	5	3	4
2	5	4	1	3
3	1	4	2	5
3	4	2	5	1
3	5	1	4	2
4	2	1	5	3
4	3	5	1	2
4	5	3	2	1
5	1	2	4	3
5	2	4	3	1
5	3	1	2	4

$$\tilde{P}(y) = 13 + 36y^4 + 21y^5 + 6y^6 + 15y^7$$

Order of the stab. :4

Gen. of the stab. :

$\mathfrak{g}_{(1,4,3,5,2)} \mathfrak{d}_{(1,4,3,5,2)} \mathfrak{S}$ ,

$\mathfrak{g}_{(2,4)(3,5)} \mathfrak{d}_{(2,4)(3,5)} \mathfrak{S}$ ,

Size : 15

Invertible code

1	2	3	4	5
1	3	4	5	2
1	4	5	2	3
2	1	4	3	5
2	3	5	1	4
2	5	1	4	3
3	1	5	4	2
3	2	1	5	4
3	5	4	2	1
4	1	2	5	3
4	3	1	2	5
4	5	3	1	2
5	1	3	2	4
5	2	4	1	3
5	4	2	3	1

$$\tilde{P}(y) = 15 + 52y^4 + 27y^5 + 4y^6 + 22y^7$$

Order of the stab. :8

Gen. of the stab. :

$\mathfrak{g}_{(1,3,2,4)} \mathfrak{d}_{(2,3,4,5)}$ ,

$\mathfrak{g}_{(1,5)(2,3)} \mathfrak{d}_{(1,5)(2,3)} \mathfrak{S}$ ,

Size : 20

Invertible code

1	2	3	4	5
1	3	4	5	2
1	4	5	2	3
1	5	2	3	4
2	1	4	3	5
2	3	5	1	4
2	4	3	5	1
2	5	1	4	3
3	1	5	4	2
3	2	1	5	4
3	4	2	1	5
3	5	4	2	1
4	1	2	5	3
4	2	5	3	1
4	3	1	2	5
4	5	3	1	2
5	1	3	2	4
5	2	4	1	3
5	3	2	4	1
5	4	1	3	2

$$\tilde{P}(y) = 20 + 100y^4 + 50y^5 + 40y^7$$

Order of the stab. :800

Gen. of the stab. :

$\mathfrak{g}_{(1,4,2,3)} \mathfrak{S}$ ,

$\mathfrak{g}_{(1,4,5,3,2)} \mathfrak{d}_{(1,2)(3,4)} \mathfrak{S}$ ,

$\mathfrak{g}_{(1,5,2,4,3)} \mathfrak{d}_{(1,4,5,3,2)}$ ,

$\mathfrak{g}_{(1,5,4,2)} \mathfrak{d}_{(1,5,4,2)} \mathfrak{S}$ ,