

Thematisch inverse Quadrupelrelationen

1. Bekanntlich bilden eine Zeichenklasse, ihre Konverse und die beiden Dualen eine Quadrupelrelation. Im folgenden konstruieren wir zu jeder der 27 Dualsysteme des vollständigen Systems der ternären Zeichenrelation die jeweilige thematisch inverse (vgl. Toth 2026a, b) Quadrupelrelation.

2. Thematisch inverse Quadrupelrelationen

3.1	2.1	1.1	×	1.1	1.2	1.3
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1.1	2.1	3.1	×	1.3	1.2	1.1
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3.1	1.1	2.1	×	1.1	1.3	1.2
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1.1	3.1	2.1	×	1.3	1.1	1.2
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3.1	2.1	1.2	×	2.1	1.2	1.3
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1.2	2.1	3.1	×	1.3	1.2	2.1
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3.1	1.2	2.1	×	2.1	1.3	1.2
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1.2	3.1	2.1	×	1.3	2.1	1.2
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3.1	2.1	1.3	×	3.1	1.2	1.3
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1.3	2.1	3.1	×	1.3	1.2	3.1
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3.1	1.3	2.1	×	3.1	1.3	1.2
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1.3	3.1	2.1	×	1.3	3.1	1.2
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3.1	2.2	1.1	×	1.1	2.2	1.3
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1.1	2.2	3.1	×	1.3	2.2	1.1
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⇓

3.1	1.1	2.2	×	1.1	1.3	2.2
1.1	3.1	2.2	×	1.3	1.1	2.2

3.1	2.2	1.2	×	2.1	2.2	1.3
1.2	2.2	3.1	×	1.3	2.2	2.1

↓

3.1	1.2	2.2	×	2.1	1.3	2.2
1.2	3.1	2.2	×	1.3	2.1	2.2

3.1	2.2	1.3	×	3.1	2.2	1.3
1.3	2.2	3.1	×	1.3	2.2	3.1

↓

3.1	1.3	2.2	×	3.1	1.3	2.2
1.3	3.1	2.2	×	1.3	3.1	2.2

3.1	2.3	1.1	×	1.1	3.2	1.3
1.1	2.3	3.1	×	1.3	3.2	1.1

↓

3.1	1.1	2.3	×	1.1	1.3	3.2
1.1	3.1	2.3	×	1.3	1.1	3.2

3.1	2.3	1.2	×	2.1	3.2	1.3
1.2	2.3	3.1	×	1.3	3.2	2.1

↓

3.1	1.2	2.3	×	2.1	1.3	3.2
1.2	3.1	2.3	×	1.3	2.1	3.2

3.1	2.3	1.3	×	3.1	3.2	1.3
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1.3	2.3	3.1	×	1.3	3.2	3.1
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3.1	1.3	2.3	×	3.1	1.3	3.2
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1.3	3.1	2.3	×	1.3	3.1	3.2
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3.2	2.1	1.1	×	1.1	1.2	2.3
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1.1	2.1	3.2	×	2.3	1.2	1.1
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↓

3.2	1.1	2.1	×	1.1	2.3	1.2
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1.1	3.2	2.1	×	2.3	1.1	1.2
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3.2	2.1	1.2	×	2.1	1.2	2.3
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1.2	2.1	3.2	×	2.3	1.2	2.1
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3.2	1.2	2.1	×	2.1	2.3	1.2
-----	-----	-----	---	-----	-----	-----

1.2	3.2	2.1	×	2.3	2.1	1.2
-----	-----	-----	---	-----	-----	-----

3.2	2.1	1.3	×	3.1	1.2	2.3
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1.3	2.1	3.2	×	2.3	1.2	3.1
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3.2	1.3	2.1	×	3.1	2.3	1.2
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1.3	3.2	2.1	×	2.3	3.1	1.2
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3.2	2.2	1.1	×	1.1	2.2	2.3
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1.1	2.2	3.2	×	2.3	2.2	1.1
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↓

3.2	1.1	2.2	×	1.1	2.3	2.2
1.1	3.2	2.2	×	2.3	1.1	2.2

3.2	2.2	1.2	×	2.1	2.2	2.3
1.2	2.2	3.2	×	2.3	2.2	2.1

↓

3.2	1.2	2.2	×	2.1	2.3	2.2
1.2	3.2	2.2	×	2.3	2.1	2.2

3.2	2.2	1.3	×	3.1	2.2	2.3
1.3	2.2	3.2	×	2.3	2.2	3.1

↓

3.2	1.3	2.2	×	3.1	2.3	2.2
1.3	3.2	2.2	×	2.3	3.1	2.2

3.2	2.3	1.1	×	1.1	3.2	2.3
1.1	2.3	3.2	×	2.3	3.2	1.1

↓

3.2	1.1	2.3	×	1.1	2.3	3.2
1.1	3.2	2.3	×	2.3	1.1	3.2

3.2	2.3	1.2	×	2.1	3.2	2.3
1.2	2.3	3.2	×	2.3	3.2	2.1

↓

3.2	1.2	2.3	×	2.1	2.3	3.2
1.2	3.2	2.3	×	2.3	2.1	3.2

3.2 2.3 1.3 × 3.1 3.2 2.3

1.3 2.3 3.2 × 2.3 3.2 3.1

⇓

3.2 1.3 2.3 × 3.1 2.3 3.2

1.3 3.2 2.3 × 2.3 3.1 3.2

3.3 2.1 1.1 × 1.1 1.2 3.3

1.1 2.1 3.3 × 3.3 1.2 1.1

⇓

3.3 1.1 2.1 × 1.1 3.3 1.2

1.1 3.3 2.1 × 3.3 1.1 1.2

3.3 2.1 1.2 × 2.1 1.2 3.3

1.2 2.1 3.3 × 3.3 1.2 2.1

⇓

3.3 1.2 2.1 × 2.1 3.3 1.2

1.2 3.3 2.1 × 3.3 1.2 1.2

3.3 2.1 1.3 × 3.1 1.2 3.3

1.3 2.1 3.3 × 3.3 1.2 3.1

⇓

3.3 1.3 2.1 × 3.1 3.3 1.2

1.3 3.3 2.1 × 3.3 3.1 1.2

3.3 2.2 1.1 × 1.1 2.2 3.3

1.1 2.2 3.3 × 3.3 2.2 1.1

⇓

3.3	1.1	2.2	×	1.1	3.3	2.2
1.1	3.3	2.2	×	3.3	1.1	2.2

3.3	2.2	1.2	×	2.1	2.2	3.3
1.2	2.2	3.3	×	3.3	2.2	2.1

↓

3.3	1.2	2.2	×	2.1	3.3	2.2
1.2	3.3	2.2	×	3.3	2.1	2.2

3.3	2.2	1.3	×	3.1	2.2	3.3
1.3	2.2	3.3	×	3.3	2.2	3.1

↓

3.3	1.3	2.2	×	3.1	3.3	2.2
1.3	3.3	2.2	×	3.3	3.1	2.2

3.3	2.3	1.1	×	1.1	3.2	3.3
1.1	2.3	3.3	×	3.3	3.2	1.1

↓

3.3	1.1	2.3	×	1.1	3.3	3.2
1.1	3.3	2.3	×	3.3	1.1	3.2

3.3	2.3	1.2	×	2.1	3.2	3.3
1.2	2.3	3.3	×	3.3	3.2	2.1

↓

3.3	1.2	2.3	×	2.1	3.3	3.2
1.2	3.3	2.3	×	3.3	2.1	3.2

3.3 2.3 1.3 × 3.1 3.2 3.3

1.3 2.3 3.3 × 3.3 3.2 3.1

↓

3.3 1.3 2.3 × 3.1 3.3 3.2

1.3 3.3 2.3 × 3.3 3.1 3.2

Literatur

Toth, Alfred, Thematische Inversion. In: Electronic Journal for Mathematical Semiotics, 2026a

Toth, Alfred, Thematisch inverse und reflektorische Zahlentripel. In: Electronic Journal for Mathematical Semiotics, 2026b

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