



# Boundary matrix reduction

$$\mathbf{B} =$$

[illegible]

# Boundary matrix reduction

[illegible]

# Boundary matrix reduction

[illegible]

# Boundary matrix reduction

[illegible]

# Boundary matrix reduction

[illegible]

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[illegible]

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[illegible]



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[illegible]

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[illegible]

# Boundary matrix reduction

[illegible]

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[illegible]

# Boundary matrix reduction

[illegible]

# Boundary matrix reduction

$$\mathbf{R} =$$

[illegible]

# Boundary matrix reduction

**R =**

	1	2	3	4	12	14	23	24	34	234
0										
1					1	1				
2					1		1			
3							1			
4						1				
12										
14										
23										1
24										1
34										1

$\beta_0 = \overset{\bullet}{4} - \overset{\bullet}{3} = 1$

# Boundary matrix reduction

**R** =

	1	2	3	4	12	14	23	24	34	234
0										
1					1	1				
2					1		1			
3							1			
4						1				
12										
14										
23										1
24										1
34										1

$$\beta_1 = \overset{\bullet}{2} - \overset{\bullet}{1} = 1$$



# Boundary matrix reduction

**R** =

	1	2	3	4	12	14	23	24	34	234
0										
1					1	1				
2					1		1			
3							1			
4						1				
12										
14										
23										1
24										1
34										1

$$\beta_1 = \overset{\bullet}{2} - \overset{\bullet}{1} = 1$$

$$\beta_k = \text{rk} Z_k - \text{rk} B_k$$