

[illegible]

Figure 1 illustrates the evolution of a 2D Ising spin configuration over 11 time steps. The top part shows the spin configurations as a grid of circles (up/down) and crosses (up/down). The bottom part shows the corresponding binary values (0 for up, 1 for down) for each site. The configurations are labeled 6 through 11. The diagram illustrates the growth of a domain wall from a single site at time 6 to a full row at time 11.

1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
3	1	1	0	0	0	0	0	0	0	1	0	1	1	3	1
2	2	0	0	0	0	0	0	0	0	2	0	0	0	2	2
0	2	2	0	0	0	0	0	0	0	2	2	3	2	0	2
0	0	3	X	X	X	X	X	X	X	0	2	3	3	0	0
			3	3	3	3	3	3	3		0	1			

20

21

0	0	0	0	0	0	0		0		0
0	0	0	0	0	0	0		1		1
10	10	10	10	10	10	10	X	2	X	2
10	10	10	10	10	10	10	X	2	0	3
8	8	8	8	8	8	8	X	0	X	X
										1

22

23

	0	0	0	0	0	0			0	3	0
	1	1	1	1	1	1		1	1	0	1
	2	2	2	2	2	2	X	2	X	0	2
	3	3	3	3	3	3	X	2	X	0	3
	3	3	3	3	3	3	X	0	X	X	3
1	1	1	1	1	1	1		0	0	3	1

24

25

26

27

0	0	0	0	0	0	0	0	0	2	2	X	0		0	0
1	1	1	1	1	1	1		1	3	3	X	1		1	0
2	2	2	2	2	2	2	X	2	2	2	X	2		2	0
3	3	3	3	3	3	3	X	2	2	2	0	3		2	2
3	3	3	3	3	3	3	X	0	0	0	X	3		0	2
1	1	1	1	1	1	1		0	2	2	1			0	0

28

29

30

31

32

33

0	0		1	0	0	0	0	0	0	1	0
1	1		3	1	1	0	1	0	1	3	1
2	0		2	2	0	0	2	0	2	2	2
3	2		0	2	2	0	2	2	3	0	2
3	3		0	0	3	X	0	2	3	0	0
1					3		0	0	1		

50515253545556

						0	0	0	0	0	0
						1	1	1	0	0	0
						2	2	2	0	0	0
						2	2	2	2	2	2
						0	0	0	2	2	2
									0	0	0

575859

0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	3	3	3	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	0	0	0	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	0	0	0	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1												

606162

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

636465

0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	2	X	0	0	X	2	2	2	2	2	2	2	X	X	2	2	2
2	2	X	0	0	X	3	3	3	3	3	3	3	X	X	3	3	3
0	0	X	X	X	X	3	3	3	3	3	3	3	X	X	3	3	3
			3	X	1		1	1	1	1	1	1					

1 = 65

1 2 3 4 5 6

4/4 2/4 4/4 4/4

7 8 9 10 11 12 13 14

15 16 17 18 19 20 21 22

23 24 25 26 27 28

15-17 15-17 15-15 (15)-12 13-15-13 15-14-12

The image shows a musical score for the song "The Rose Tree". It consists of two systems of music. The first system has five measures, numbered 32 to 36. Measures 32, 33, and 34 contain a single eighth note (G4) on a five-line staff. Measure 35 contains a quarter note (G4) on a five-line staff. Measure 36 contains a half note (G4) on a five-line staff. The second system has two measures, numbered 37 and 38. Measure 37 contains a quarter note (G4) on a five-line staff. Measure 38 contains a half note (G4) on a five-line staff. The notes are written on a five-line staff with a key signature of one flat (Bb) and a common time signature (C). The notes are: G4 (quarter), G4 (quarter), G4 (quarter), G4 (quarter), G4 (half), G4 (half), G4 (half), G4 (half).

[illegible]

The image shows a musical score for the song "The Rose Tree". It is written for a single melodic line on a five-line staff. The key signature has one sharp (F#), and the time signature is 3/4. The score is divided into five measures, numbered 41 through 45. Measure 41 contains a whole rest. Measure 42 contains a quarter note G4, a quarter note A4, a quarter note B4, a quarter note C5, and a quarter note B4. Measure 43 contains a half note G4 and a half note A4. Measure 44 contains a quarter note G4, a quarter note A4, a quarter note B4, a quarter note C5, and a quarter note B4. Measure 45 contains a half note G4 and a half note A4. Below the staff, there are two rows of rhythmic notation. The first row contains two wavy lines (representing eighth notes) under measures 42 and 43, and two wavy lines (representing eighth notes) under measures 44 and 45. The second row contains the rhythmic notation "1213-12-13-121213" under measures 42 and 43, and "1213-12-13-121213" under measures 44 and 45. The title "The Rose Tree" is written in a decorative font at the bottom of the page.

46 47 48 49

1213-12-13-13-12-1213 5-7 5-7 5-5-5-7-57

50 51

7- (7) 5 7 57 7- (7) 5 7 7 0 0 0 12 15 1

52 53

12-15-15-12-12-15 (15) 15 13-13 13 1315 14

54 55 56

15 13 14 13 15 14 15 15 15 12

57 58 59 60 61 62

1012 (12) 7 7 (7) 1012

63 64 65 66

1213 12 13 12 1213 1213 12 13 12 1213

67 68 69 70

1213 12 13 13 12 1213 1213 12 13 13 12 1213 (13) 8

71

1 = 65

1 2 3 4 5 6

4/4 4/4 2/4 4/4

7 8 9 10 11 12 13 14

15 16 17 18 19 20 21 22

23 24 25 26 27 28

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12 13 12-15-15 1 (15)-13 12-14-12 14 1412

29

1

1

(12)-10

12-10-12

10-12

12

10

12-10-12

10

12

30

1

(12)

(12)

9

31

—

32

33

34

35

36

~

~

~

12

12-15-15

1213

(15)-13

1214-12

14

1412

37

38

39

40

41

1

1

(12)-10

12-10-12

10-12

12

10

12-10-12

10

12

(12)

42

43

44

45

~

~

~

~

1214-12-14-12-1214

~

~

~

~

1214-12-14-12-1214

46 47 48 49 50 51 52

1214-12-14-14-12-1214

53 54 55 56 57 58 59 60

1213-(13)-8

61 62 63 64 65

8-(8)- 1213 1214-12-14-121214 1214-12-14-121214

66 67 68 69

1214-12-14-14-12-1214 1214-12-14-14-12-1214

70 71

(14)-7