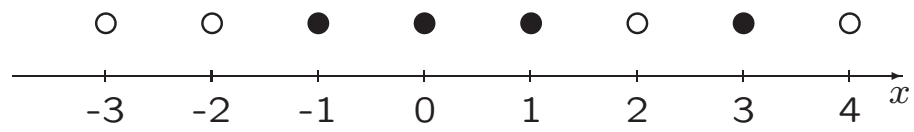


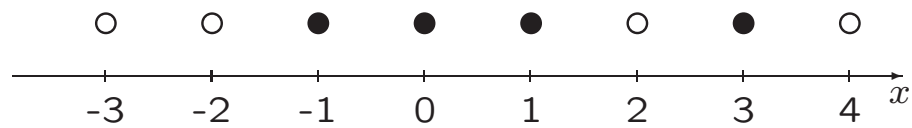
TASEP and the corner growth model

TASEP: Interacting particles



Bernoulli(ρ) distribution

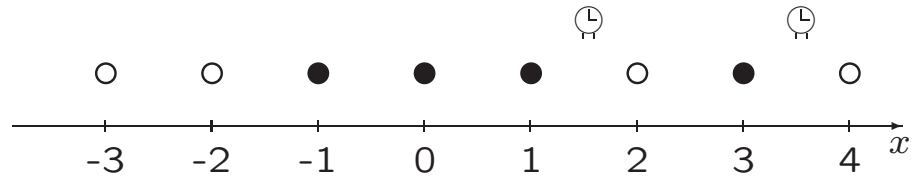
TASEP: Interacting particles



Bernoulli(ρ) distribution

(particle, hole) pairs become
(hole, particle) pairs with rate 1.

TASEP: Interacting particles



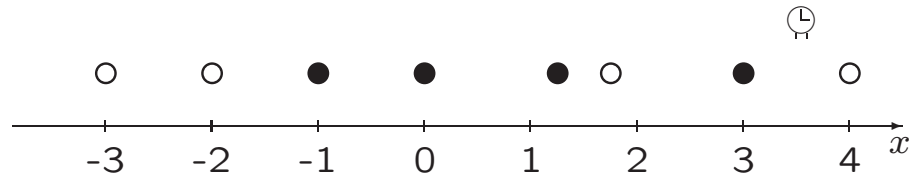
Bernoulli(ρ) distribution

(particle, hole) pairs become

(hole, particle) pairs with rate 1.

That is: waiting times $\text{clock} \sim \text{Exponential}(1)$.

TASEP: Interacting particles



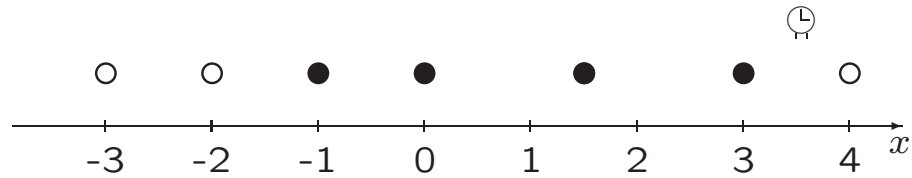
Bernoulli(ρ) distribution

(particle, hole) pairs become

(hole, particle) pairs with rate 1.

That is: waiting times $\tau \sim \text{Exponential}(1)$.

TASEP: Interacting particles



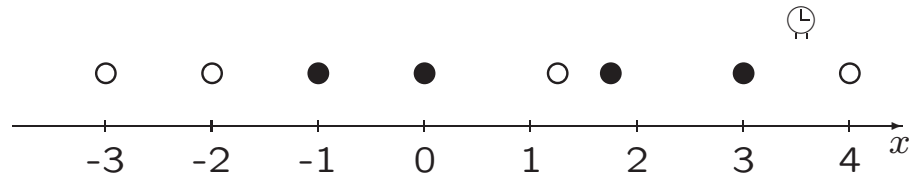
Bernoulli(ρ) distribution

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TASEP: Interacting particles



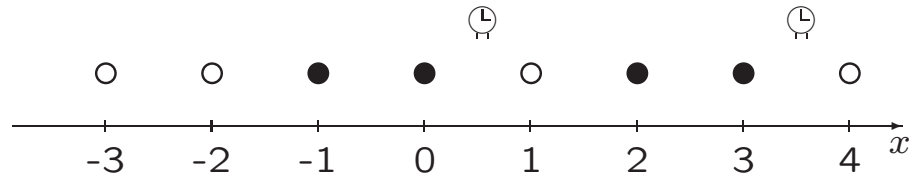
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TASEP: Interacting particles



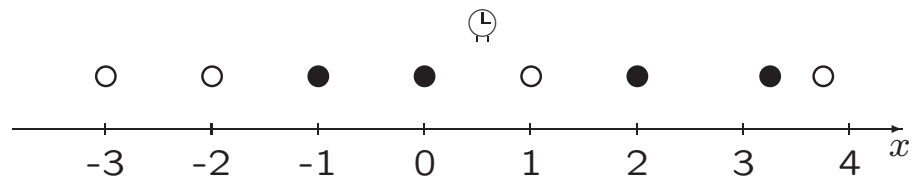
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TASEP: Interacting particles



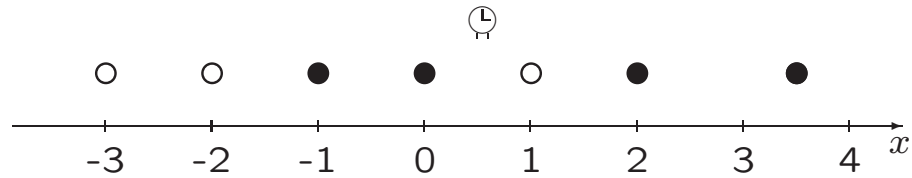
Bernoulli(ρ) distribution

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TASEP: Interacting particles



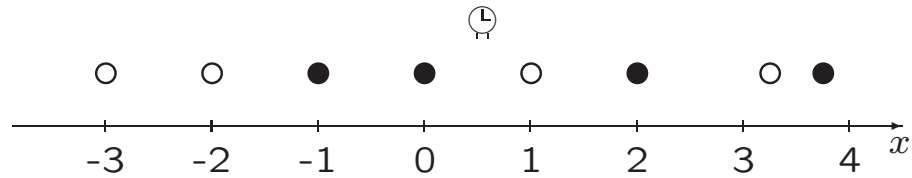
Bernoulli(ρ) distribution

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TASEP: Interacting particles



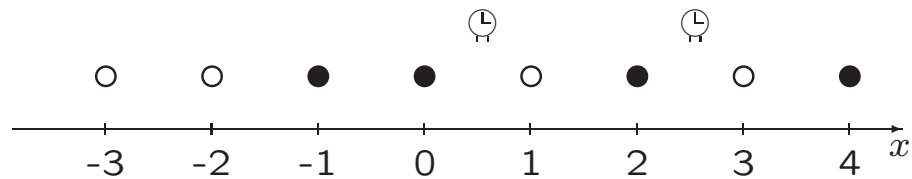
Bernoulli(ρ) distribution

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TASEP: Interacting particles



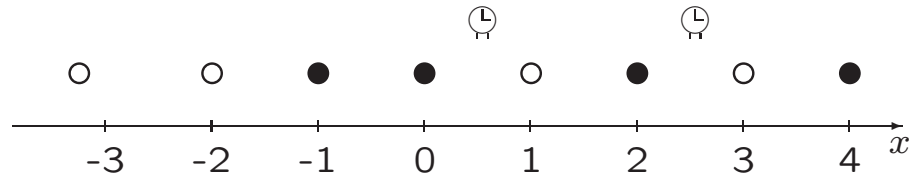
Bernoulli(ρ) distribution

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TASEP: Interacting particles



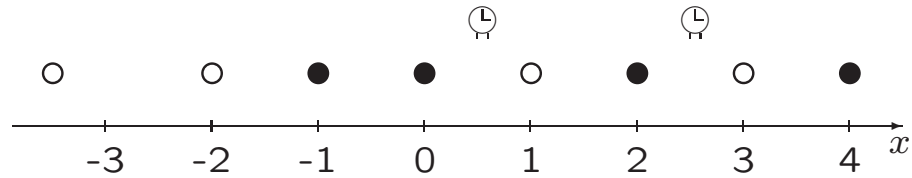
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TASEP: Interacting particles



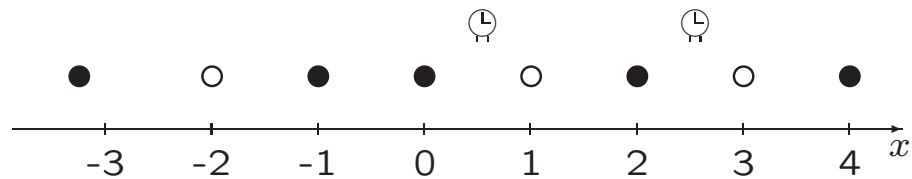
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TASEP: Interacting particles



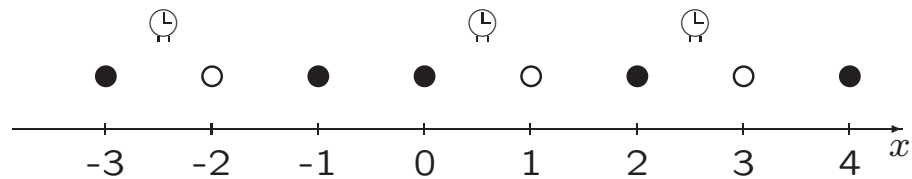
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TASEP: Interacting particles



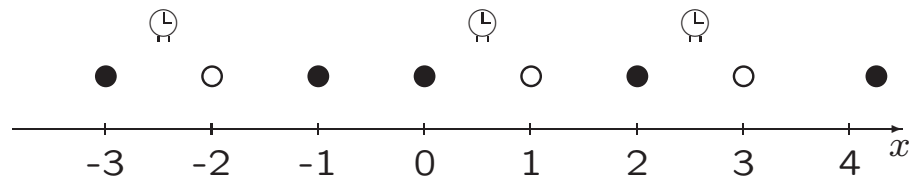
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TASEP: Interacting particles



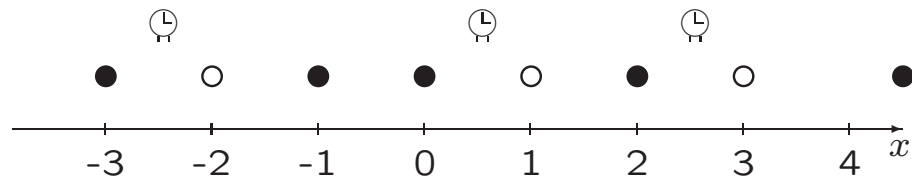
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TASEP: Interacting particles



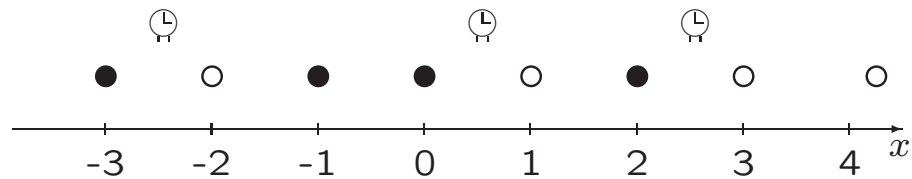
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TASEP: Interacting particles



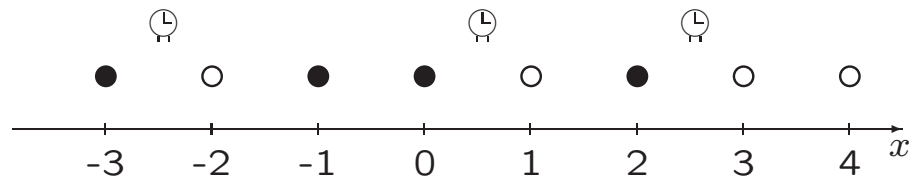
Bernoulli(ρ) distribution

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TASEP: Interacting particles



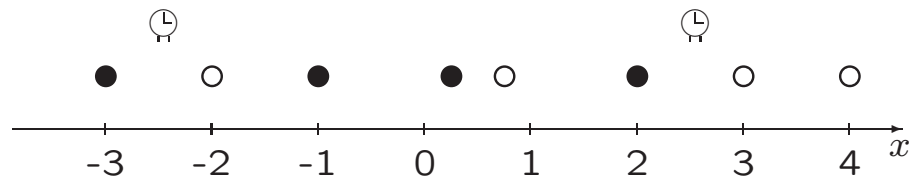
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TASEP: Interacting particles



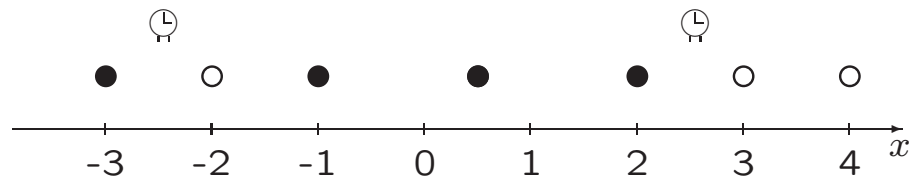
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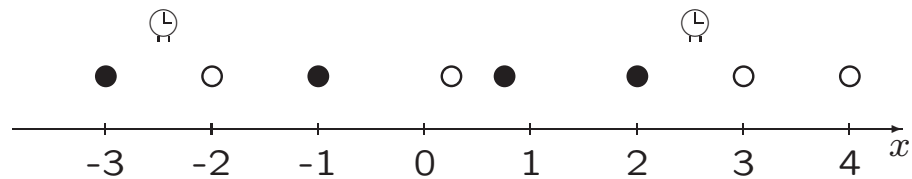
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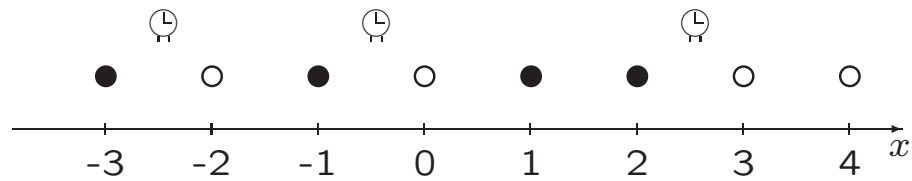
Bernoulli(ρ) distribution

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TASEP: Interacting particles



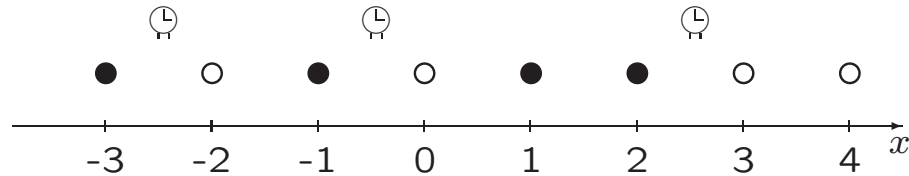
Bernoulli(ρ) distribution

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(hole, particle) pairs with rate 1.

That is: waiting times $\text{clock} \sim \text{Exponential}(1)$.

TASEP: Interacting particles



Bernoulli(ρ) distribution

(particle, hole) pairs become

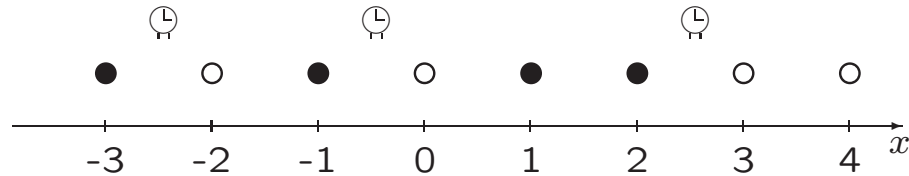
(hole, particle) pairs with rate 1.

That is: waiting times $\tau \sim \text{Exponential}(1)$.

\rightsquigarrow Markov process.

Particles try to jump to the right, but block each other.

TASEP: Interacting particles



Bernoulli(ρ) distribution

(particle, hole) pairs become

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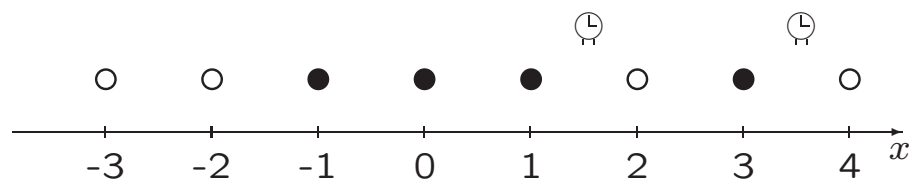
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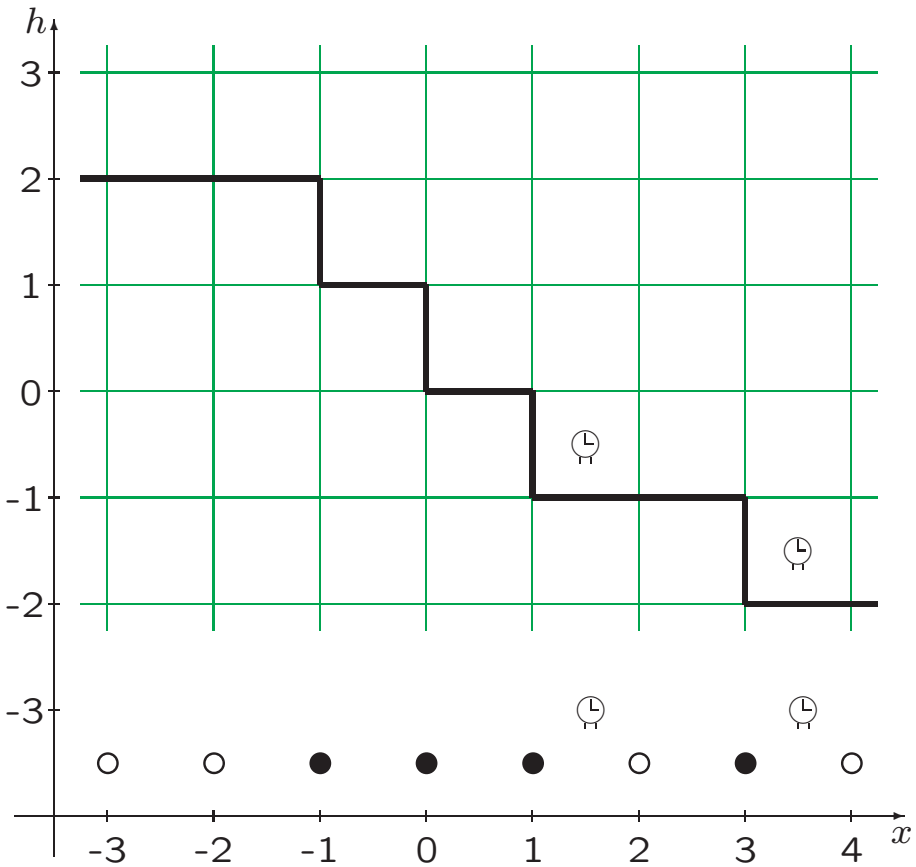
The Bernoulli(ρ) distribution is time-stationary for any $(0 \leq \rho \leq 1)$. Any translation-invariant stationary distribution is a mixture of Bernoullis.

TASEP: Surface growth



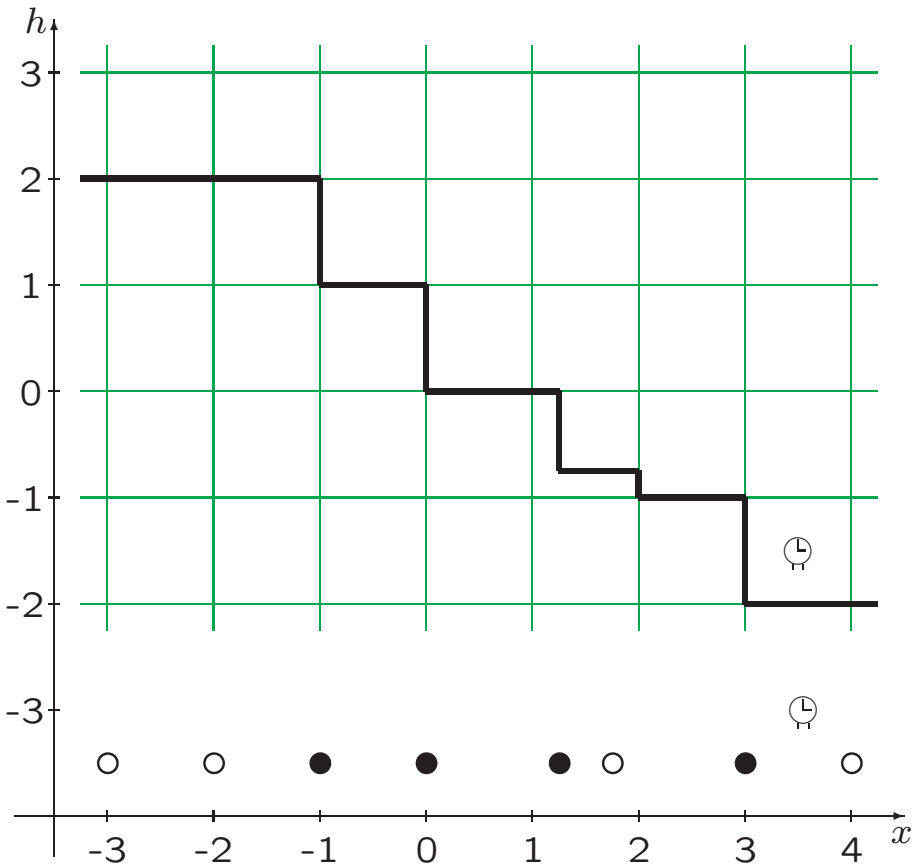
Bernoulli(ρ) distribution

TASEP: Surface growth



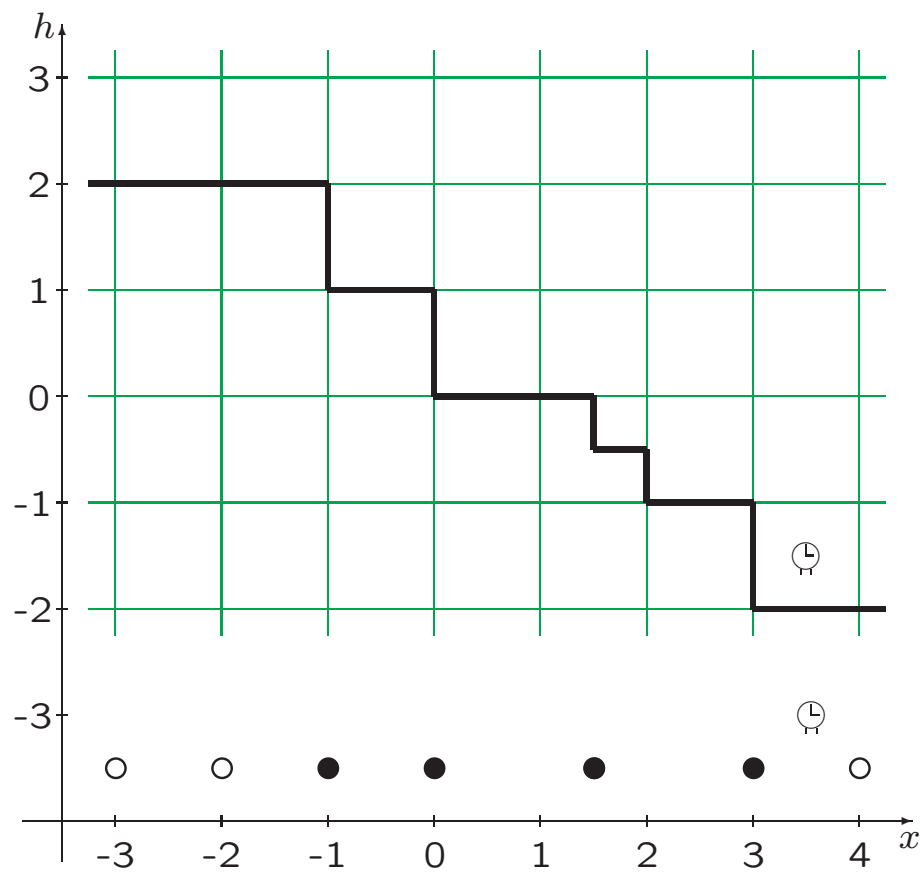
Bernoulli(ρ) distribution

TASEP: Surface growth



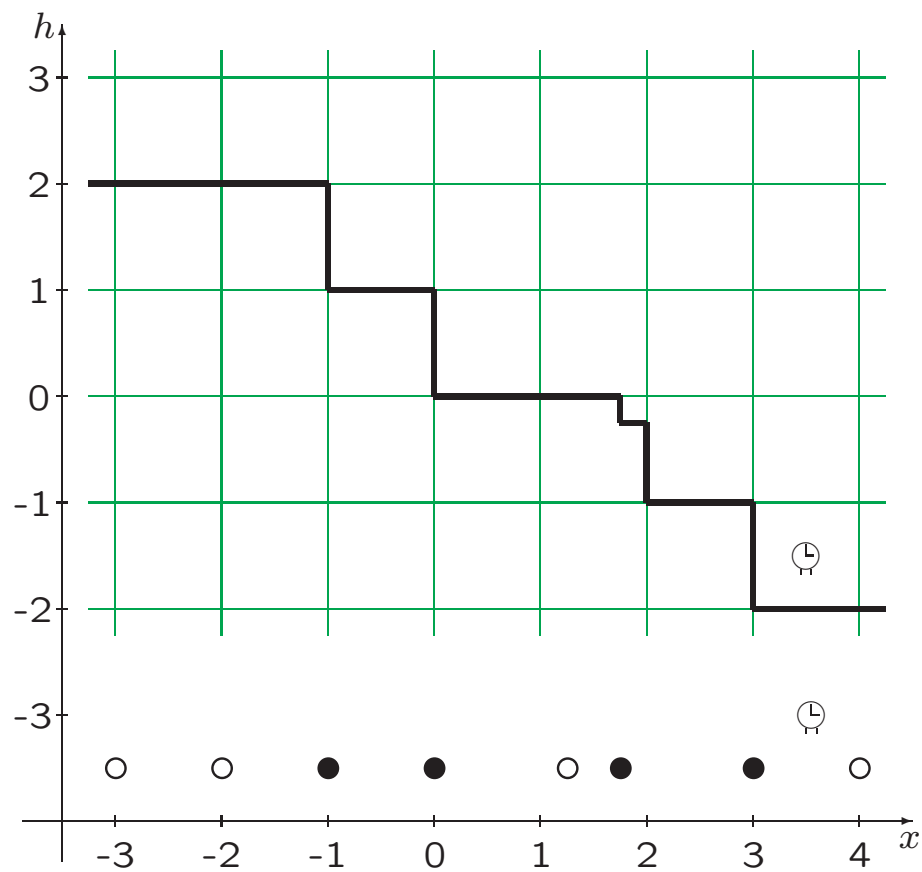
Bernoulli(θ) distribution

TASEP: Surface growth



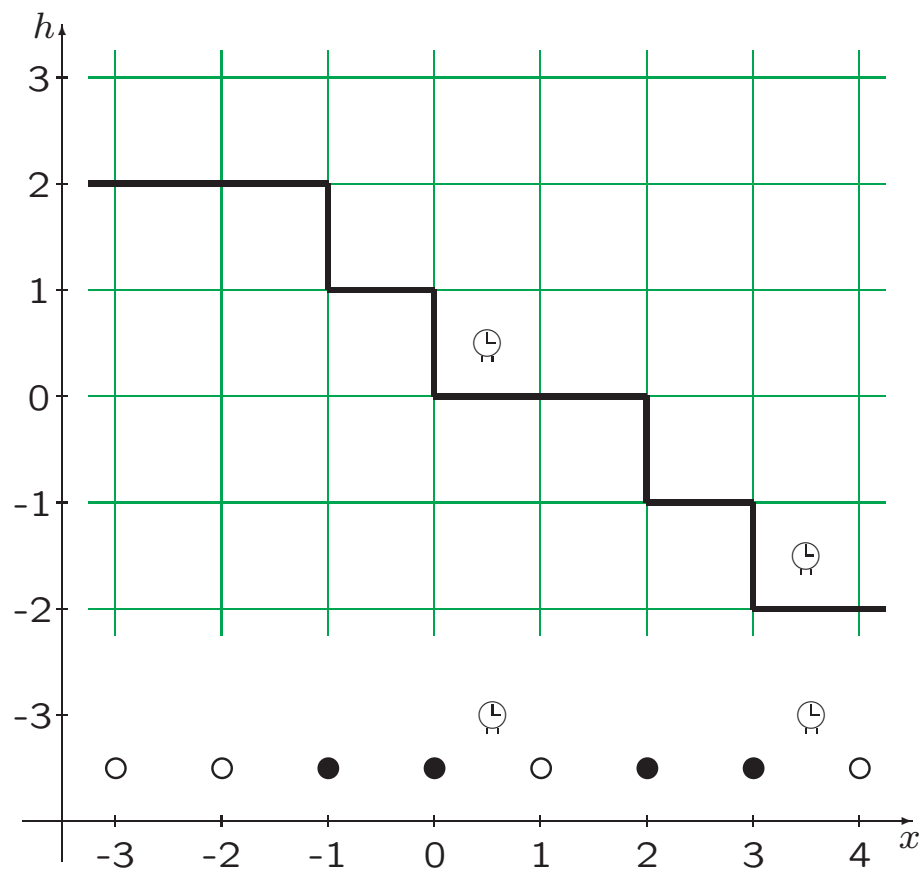
Bernoulli(ϱ) distribution

TASEP: Surface growth



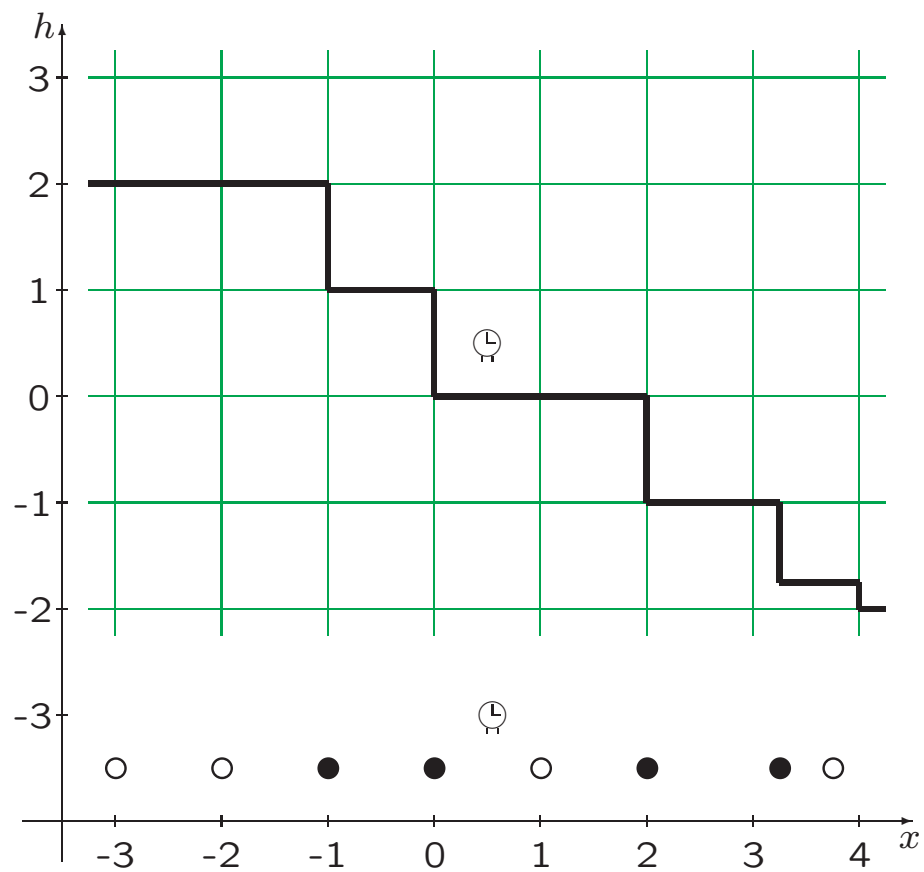
Bernoulli(ϱ) distribution

TASEP: Surface growth



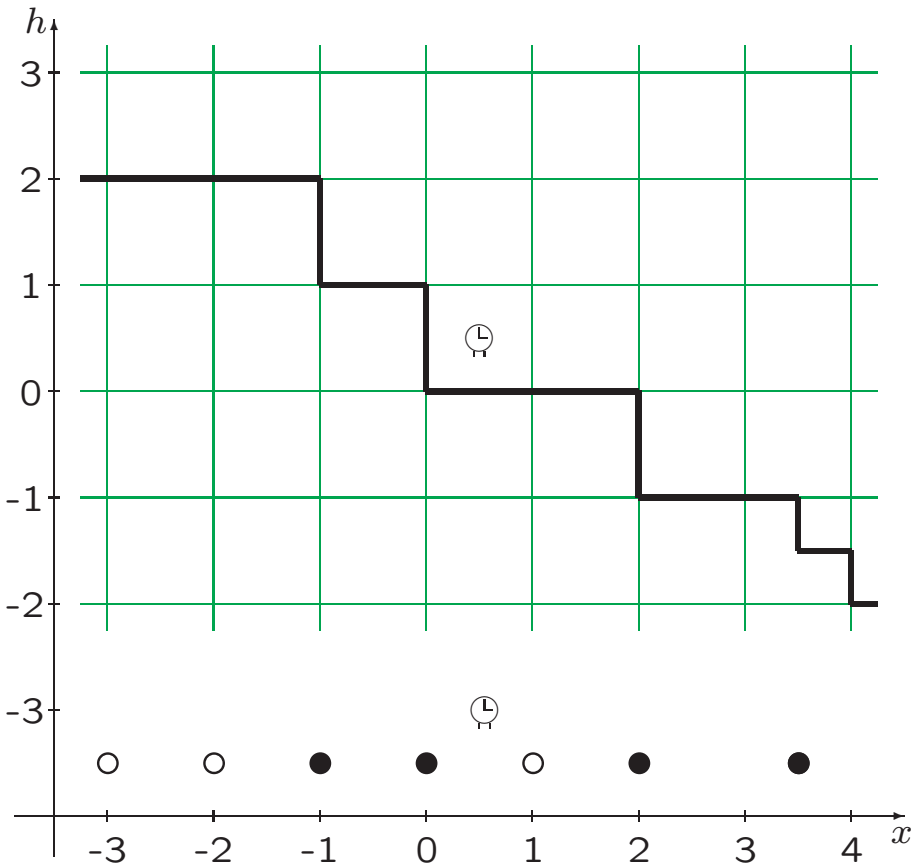
Bernoulli(ϱ) distribution

TASEP: Surface growth



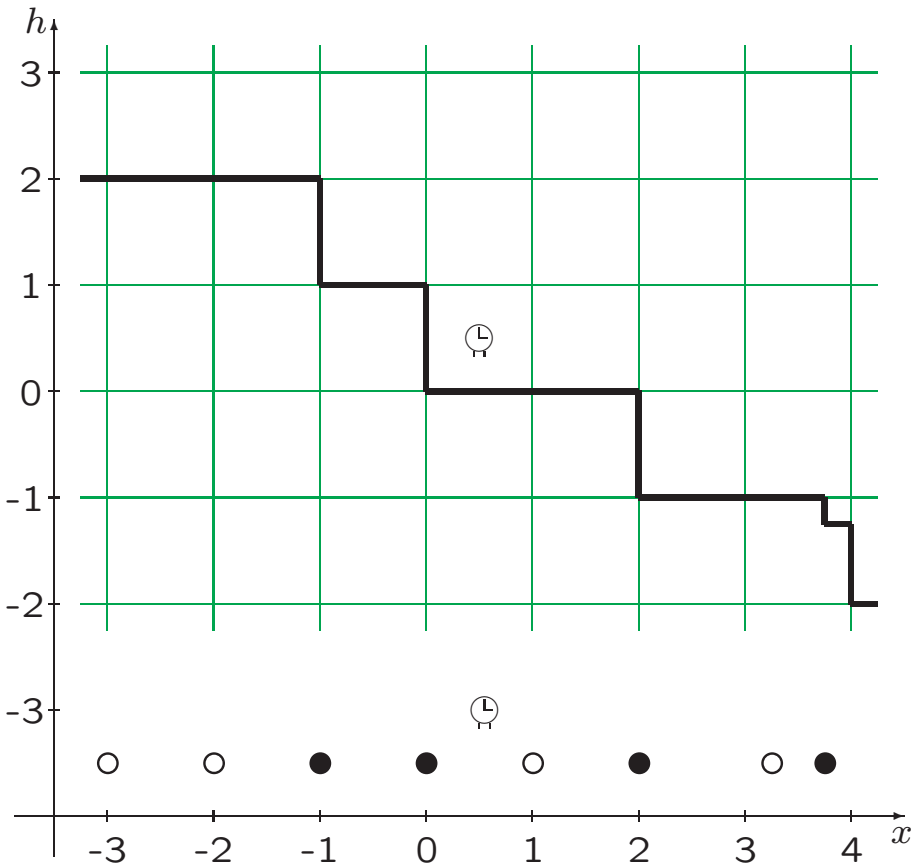
Bernoulli(ϱ) distribution

TASEP: Surface growth



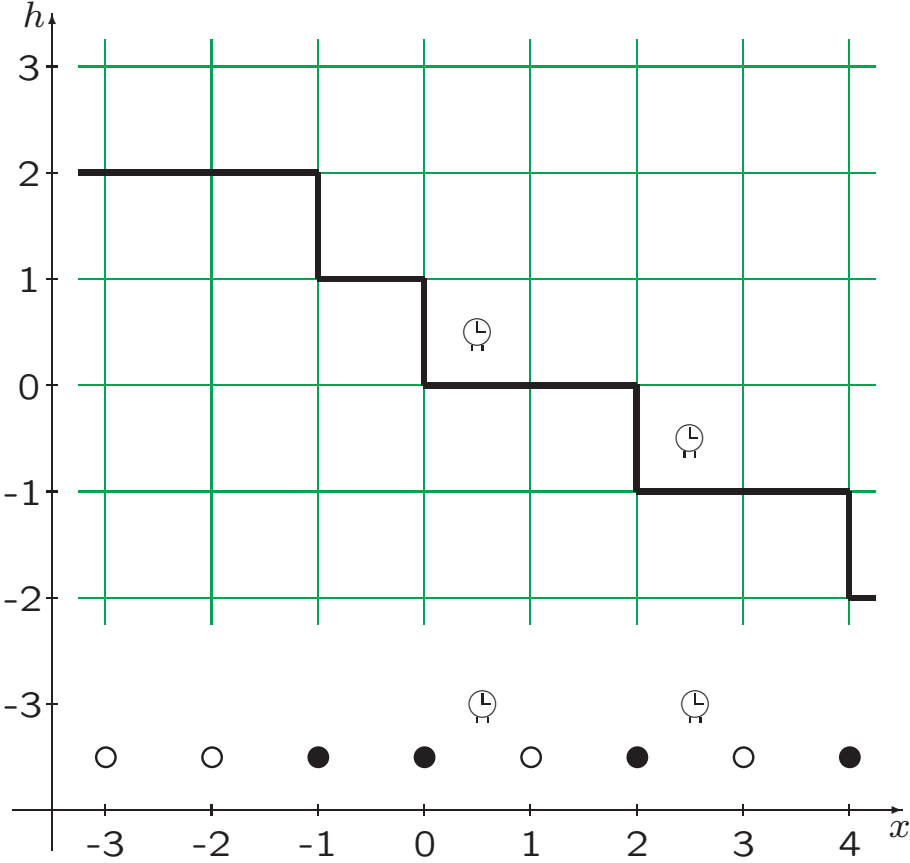
Bernoulli(ϱ) distribution

TASEP: Surface growth



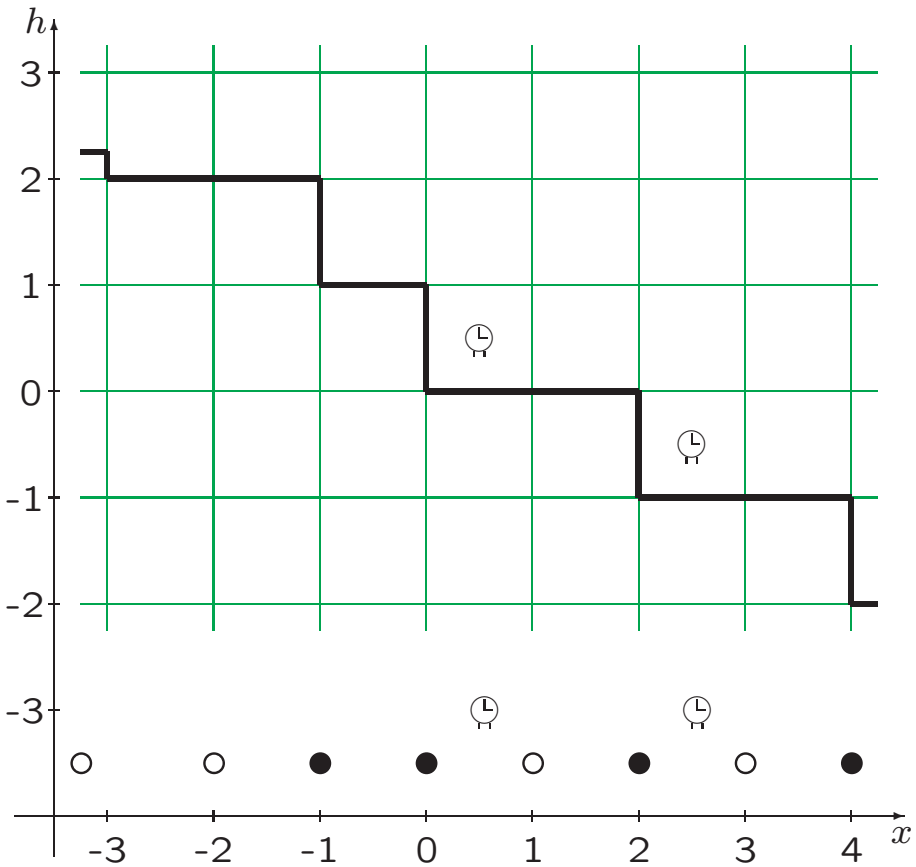
Bernoulli(ϱ) distribution

TASEP: Surface growth



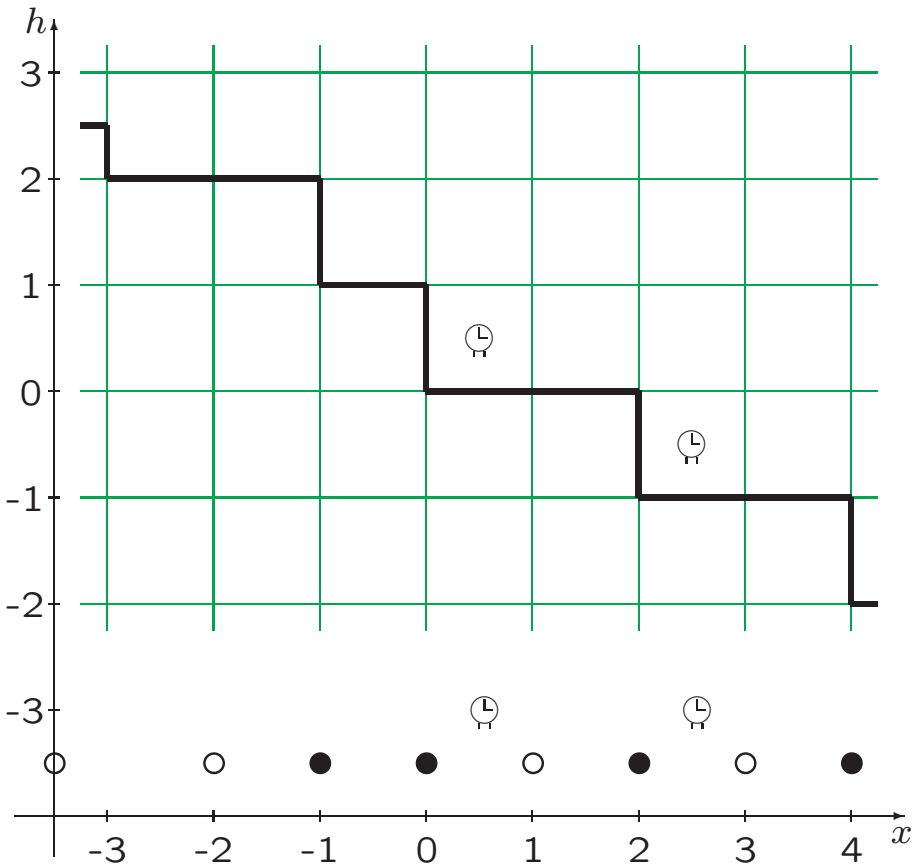
Bernoulli(ϱ) distribution

TASEP: Surface growth



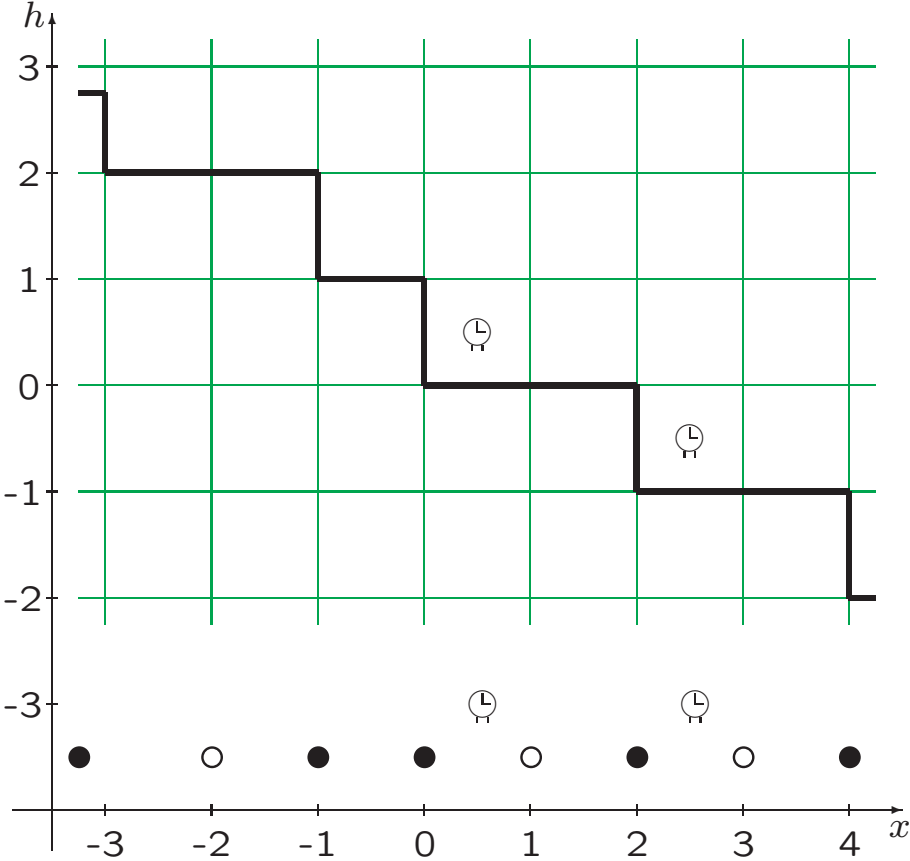
Bernoulli(ρ) distribution

TASEP: Surface growth



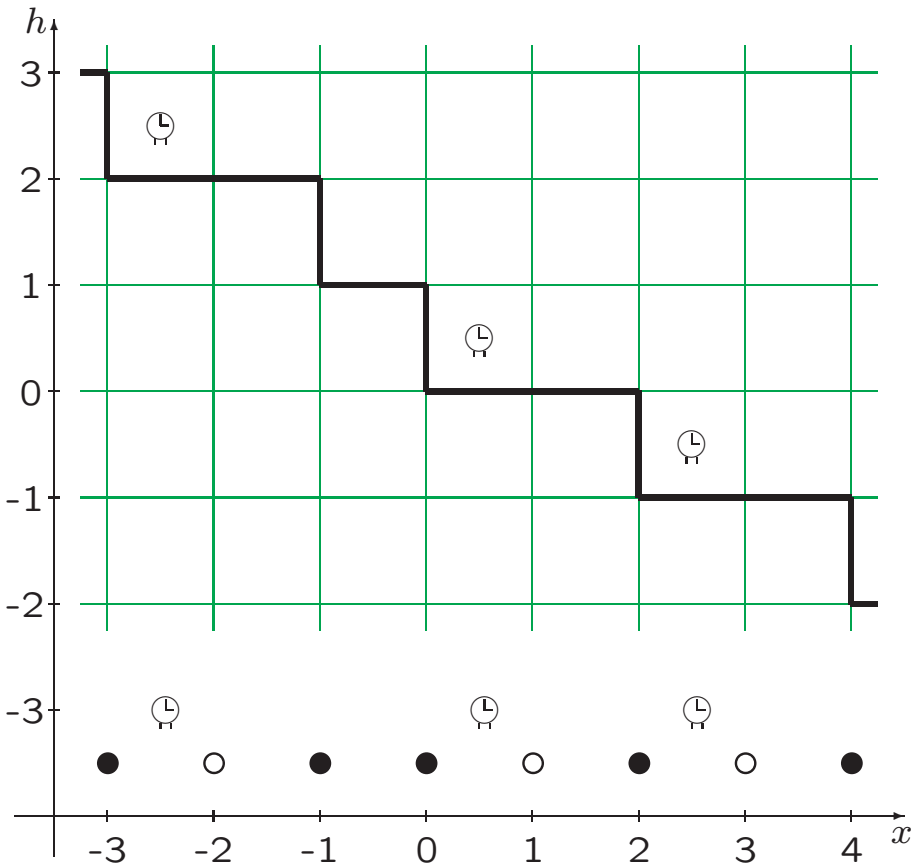
Bernoulli(ρ) distribution

TASEP: Surface growth



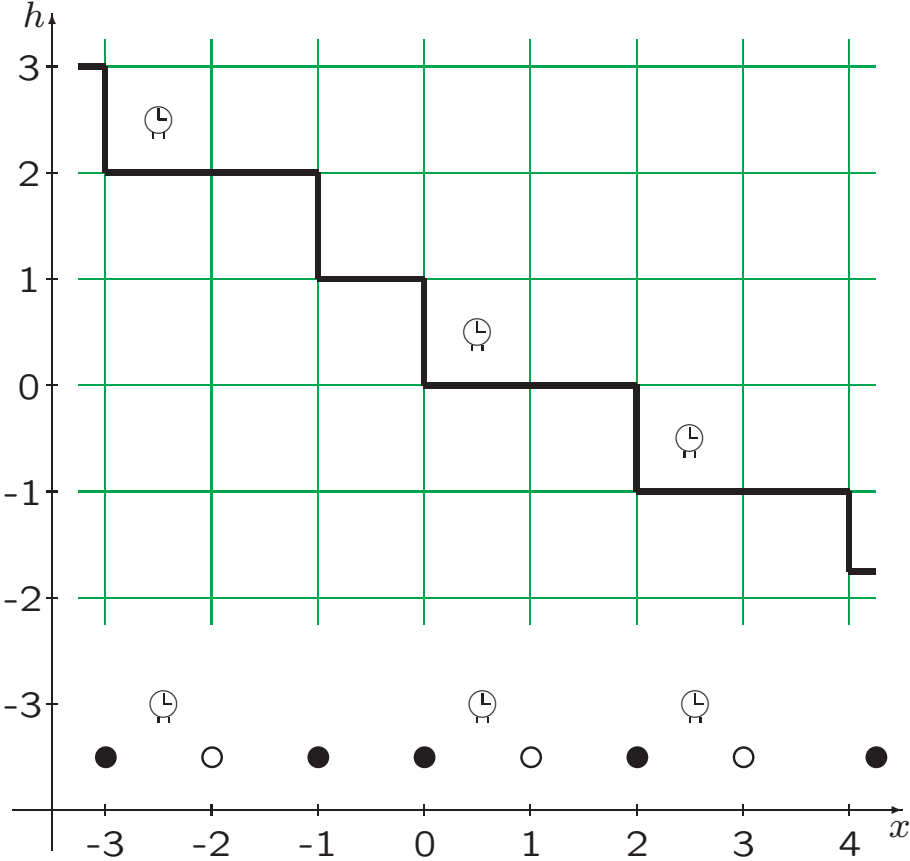
Bernoulli(ϱ) distribution

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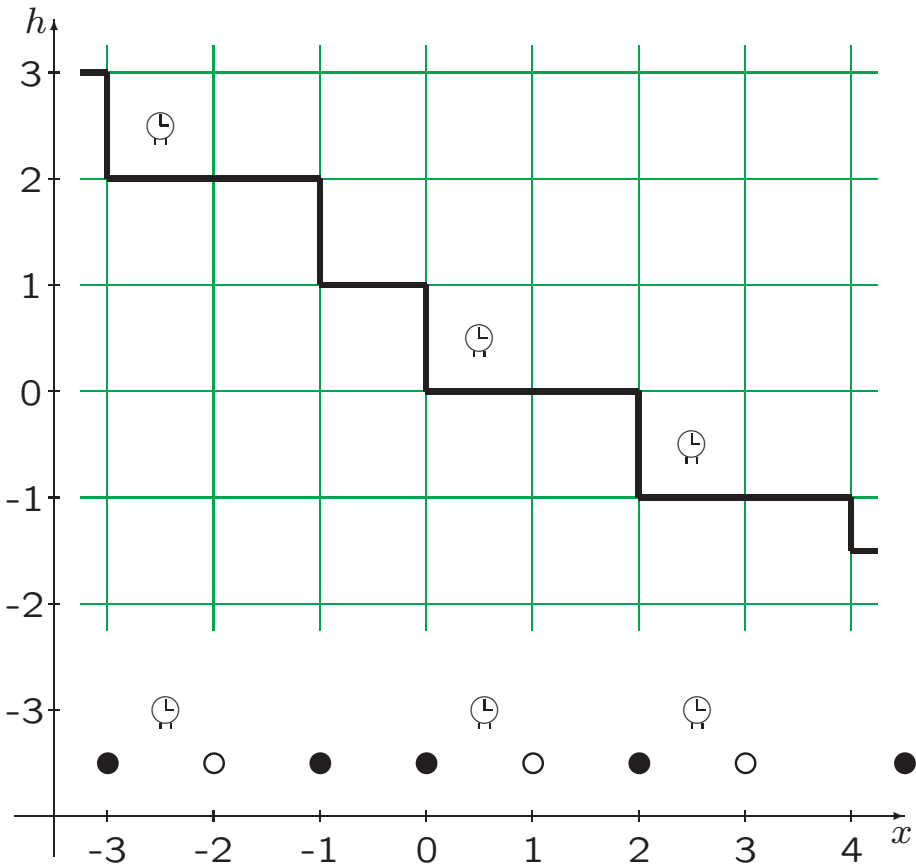
Bernoulli(ϱ) distribution

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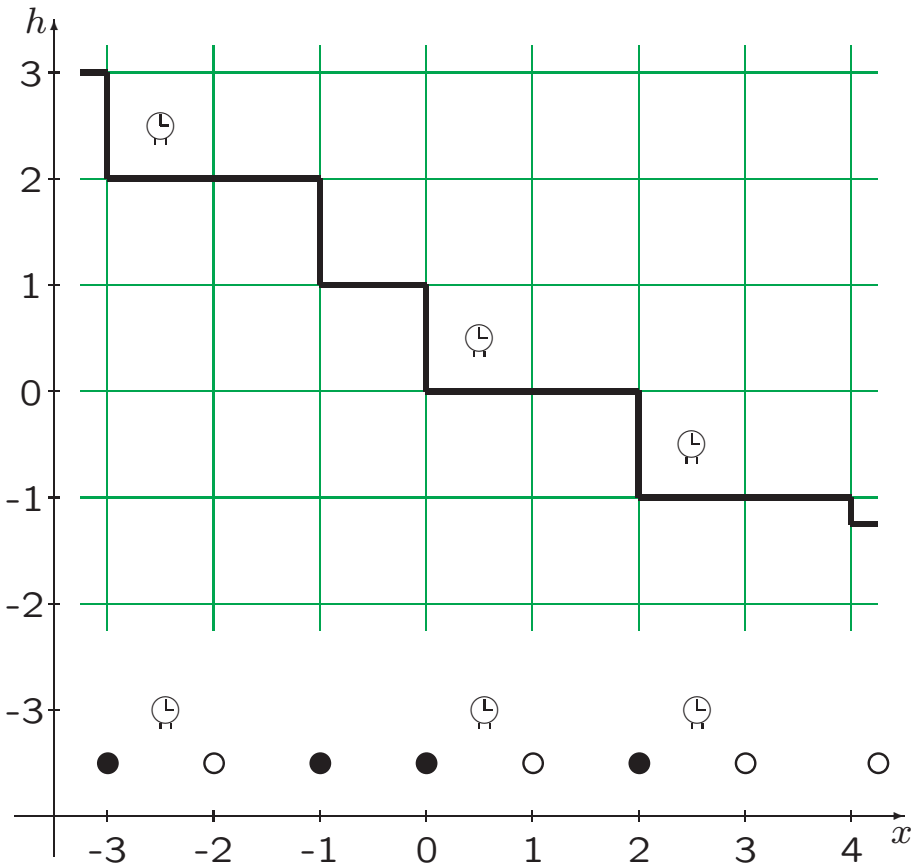
Bernoulli(ϱ) distribution

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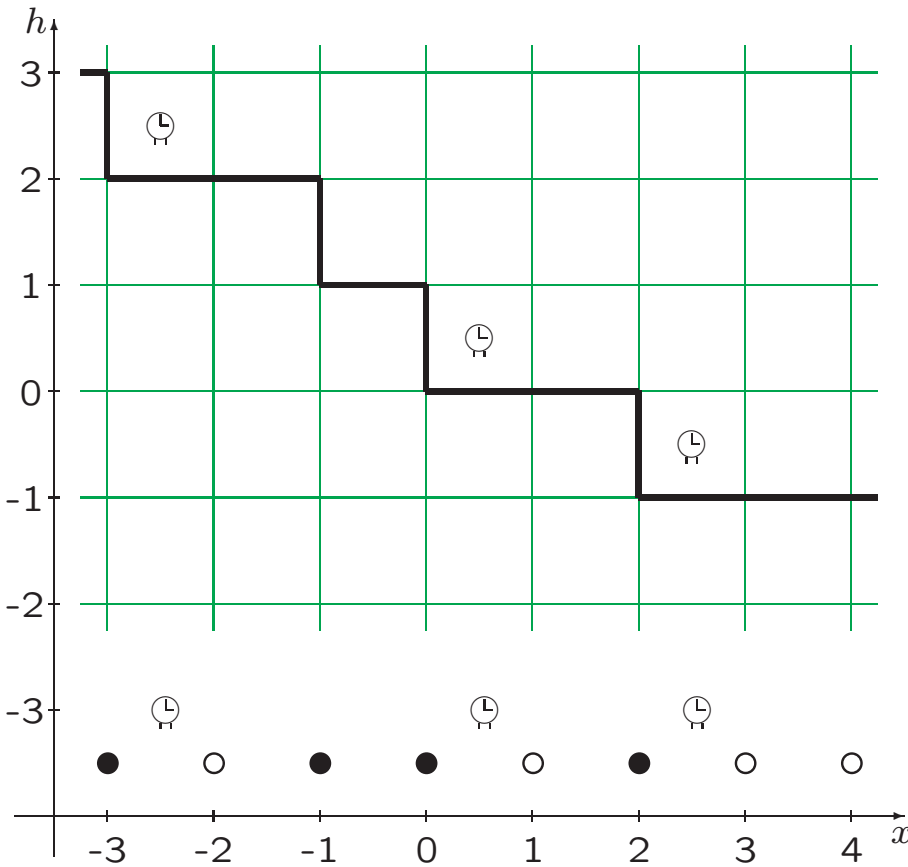
Bernoulli(ϱ) distribution

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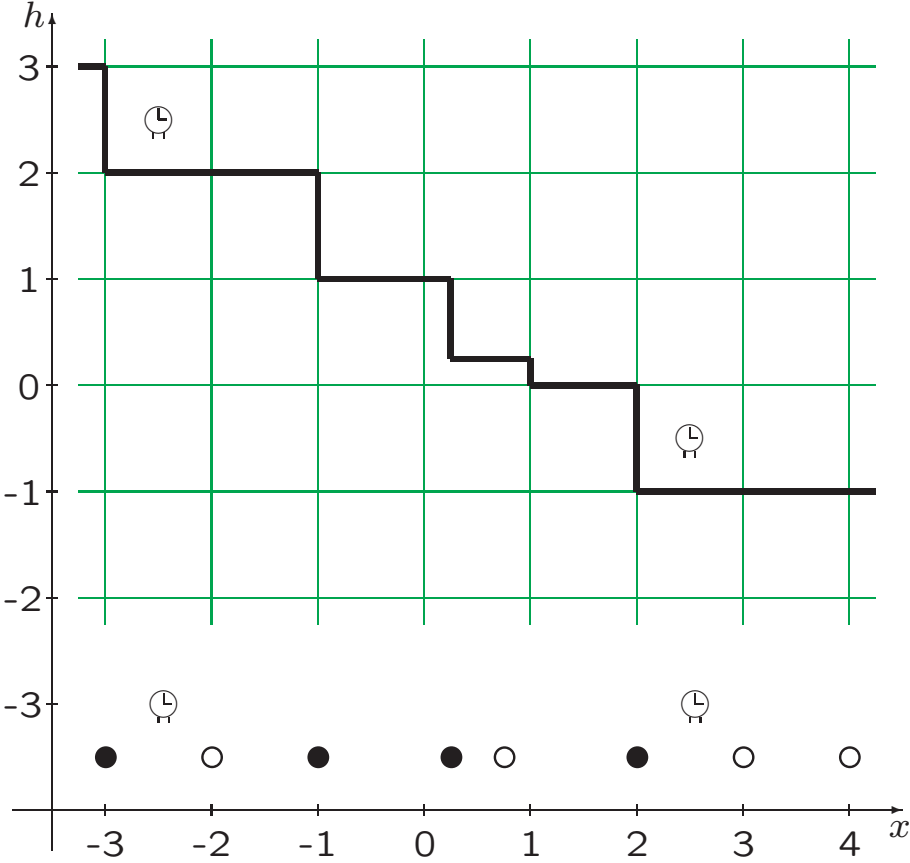
Bernoulli(ρ) distribution

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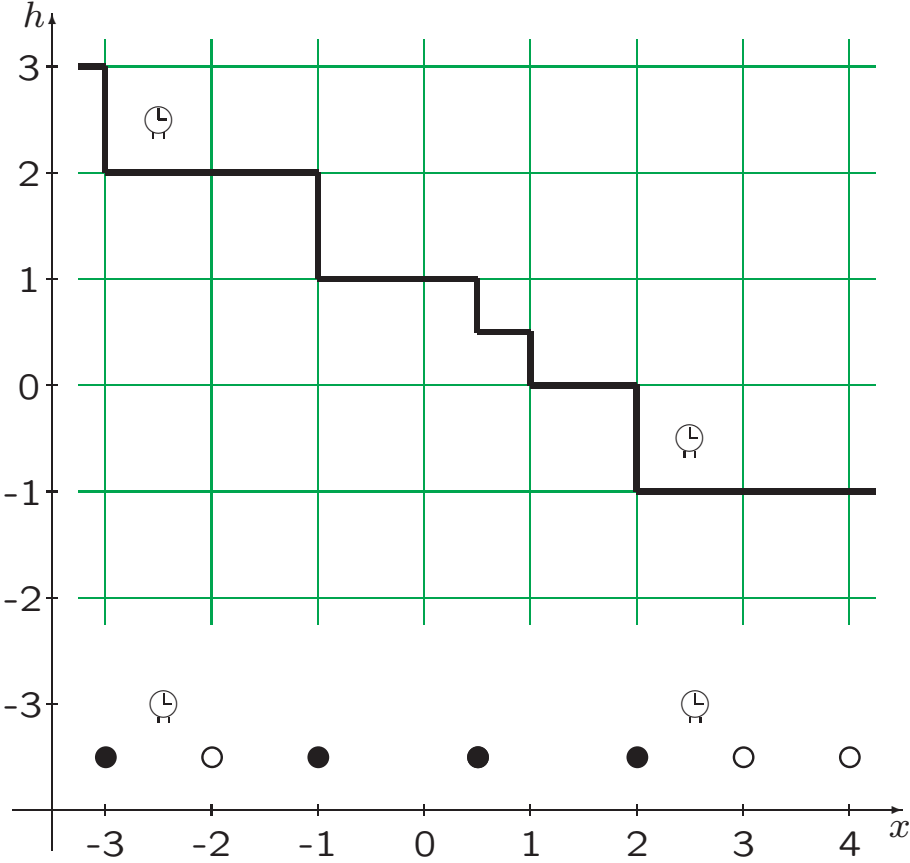
Bernoulli(ρ) distribution

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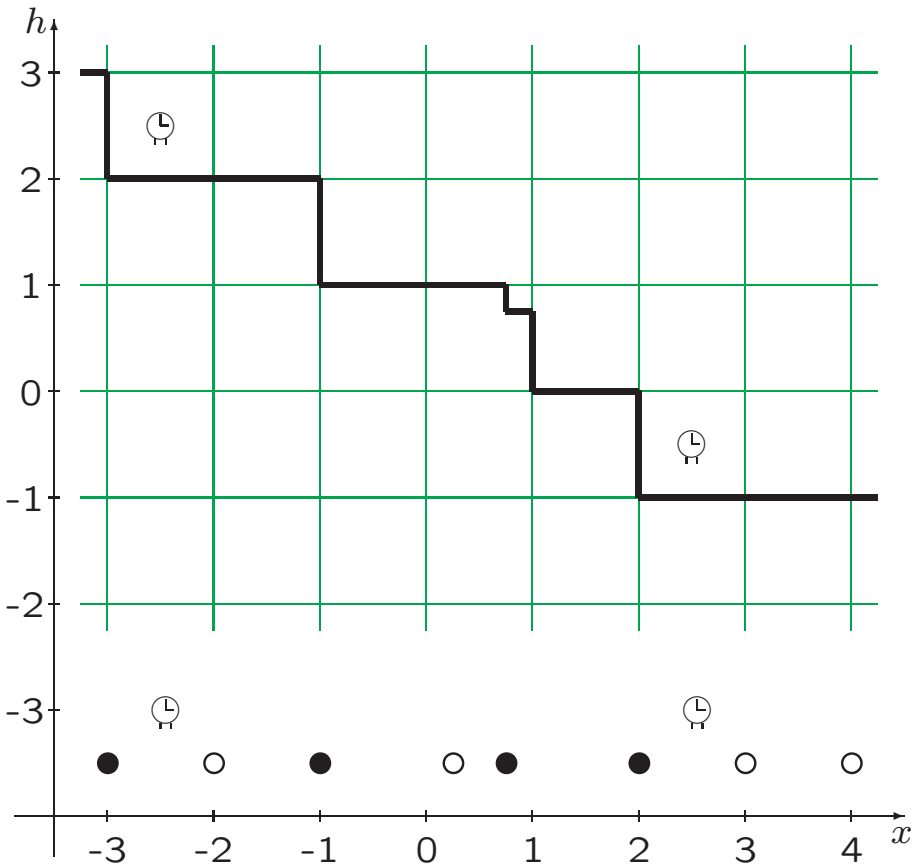
Bernoulli(ρ) distribution

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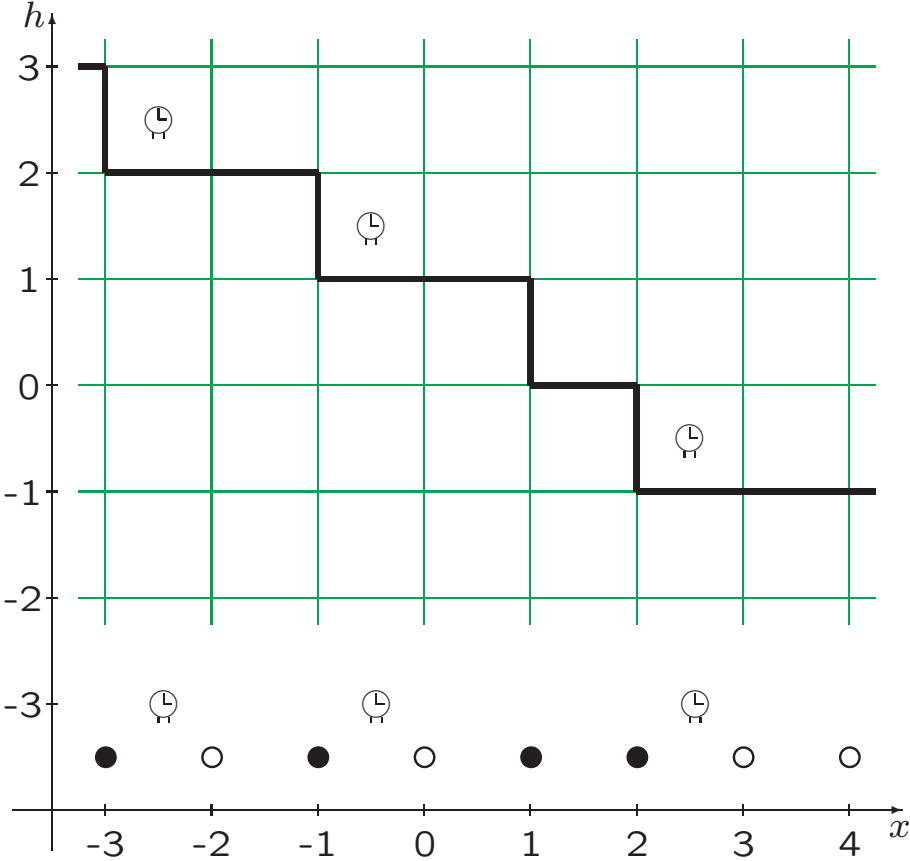
Bernoulli(ϱ) distribution

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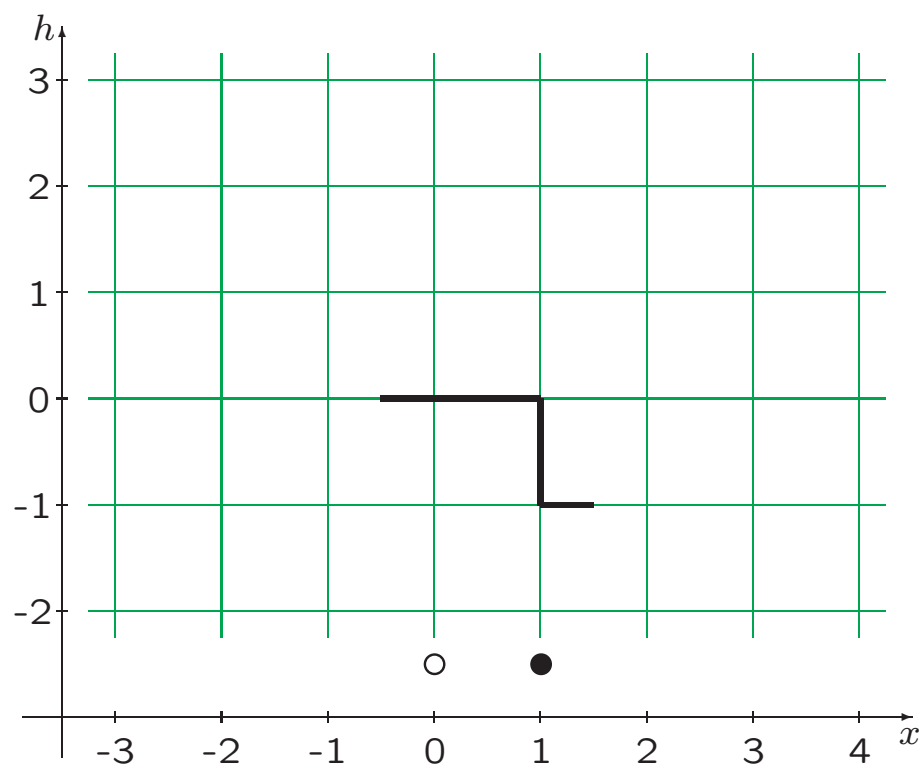
Bernoulli(ρ) distribution

TASEP: Surface growth

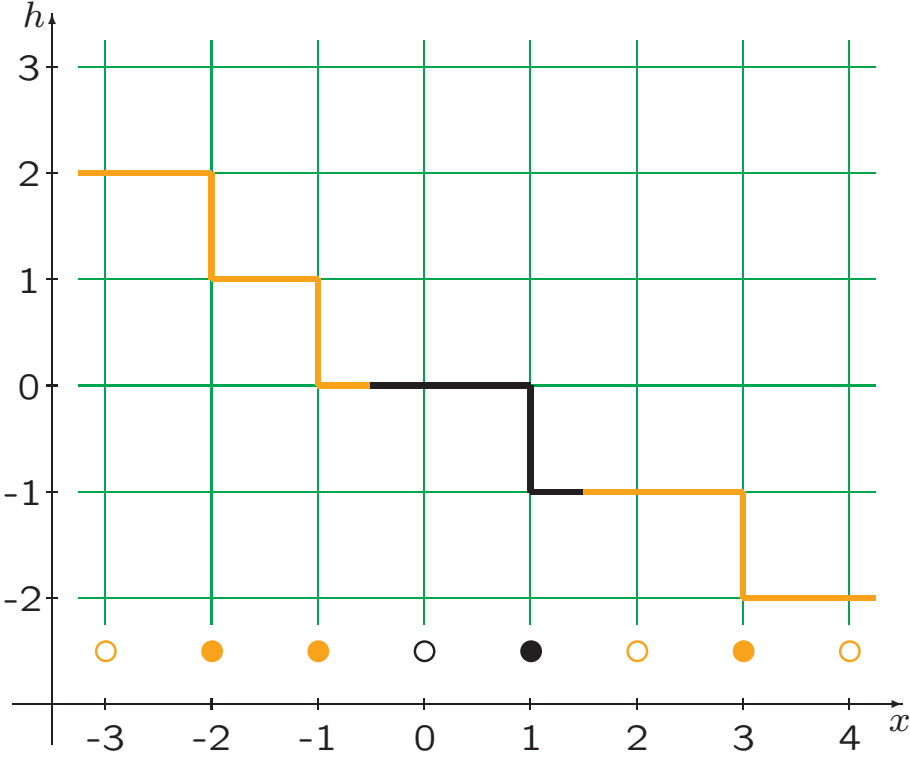


Bernoulli(ϱ) distribution

TASEP: Last passage percolation

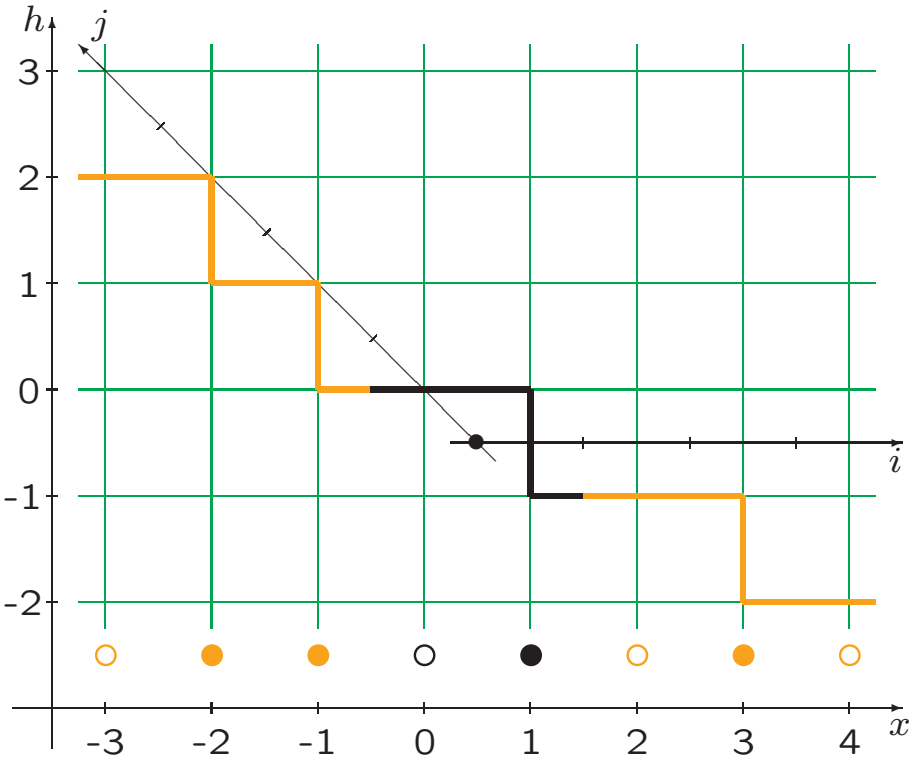


TASEP: Last passage percolation



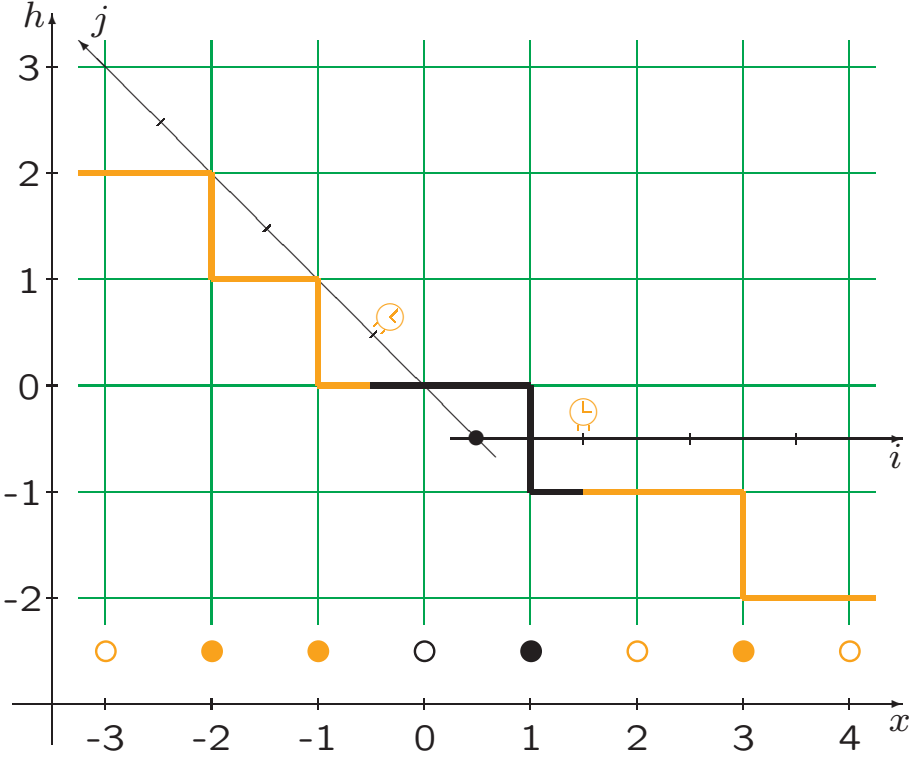
Bernoulli(ϱ) distribution

TASEP: Last passage percolation

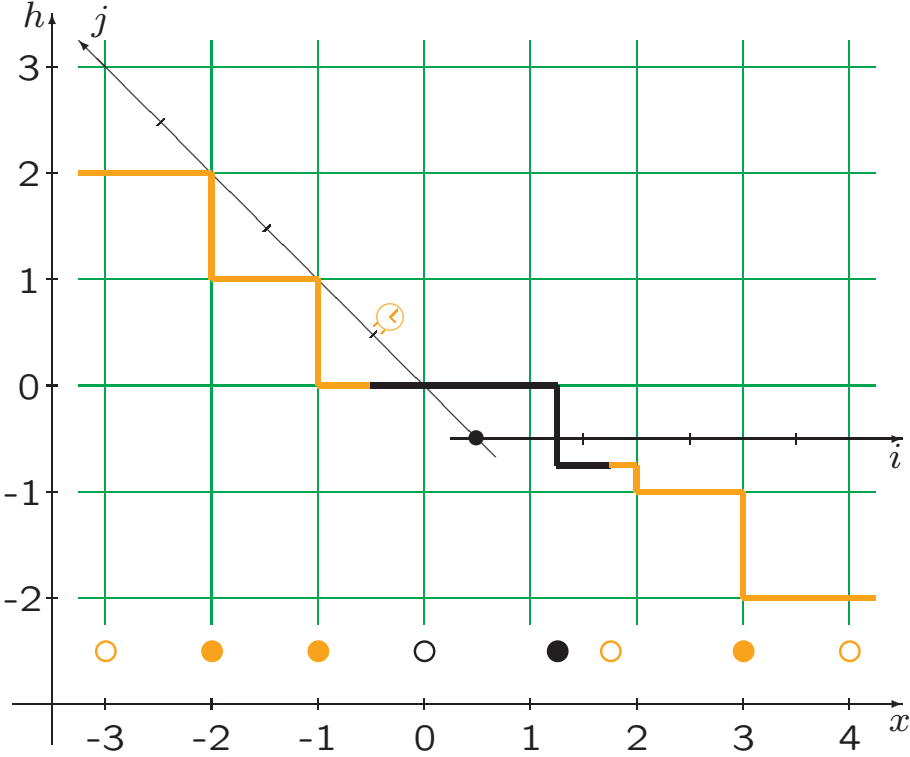


Bernoulli(ϱ) distribution

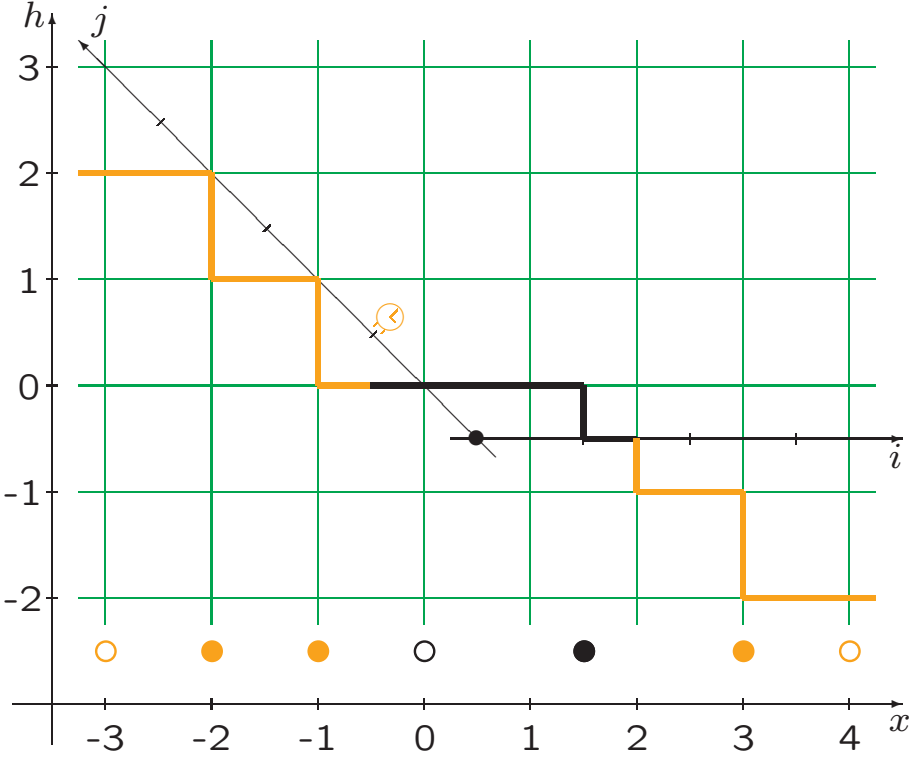
TASEP: Last passage percolation



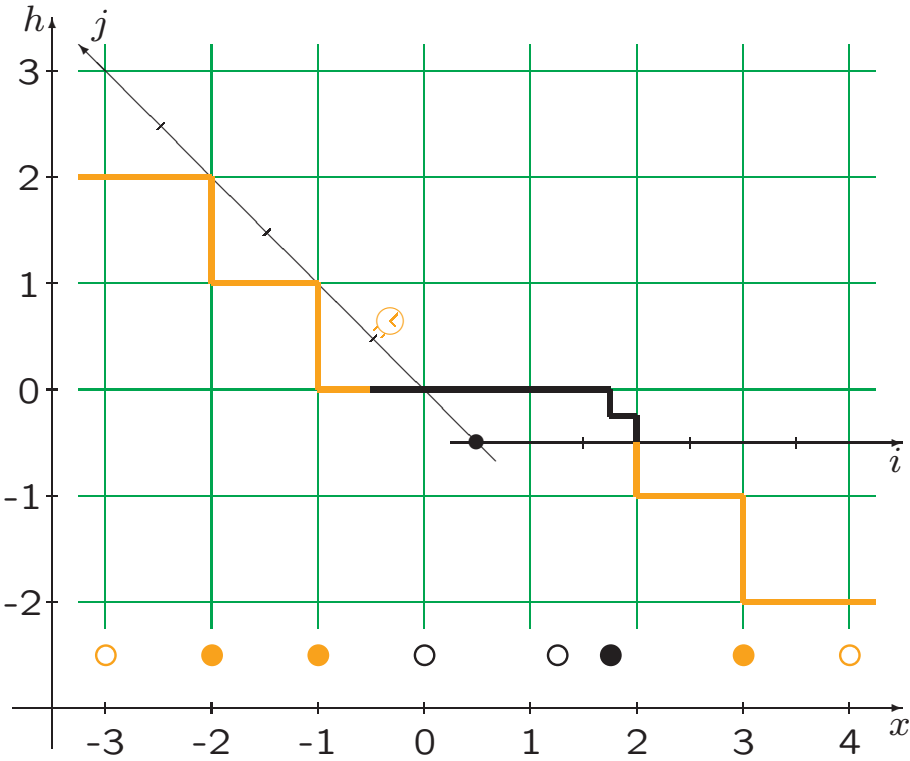
TASEP: Last passage percolation



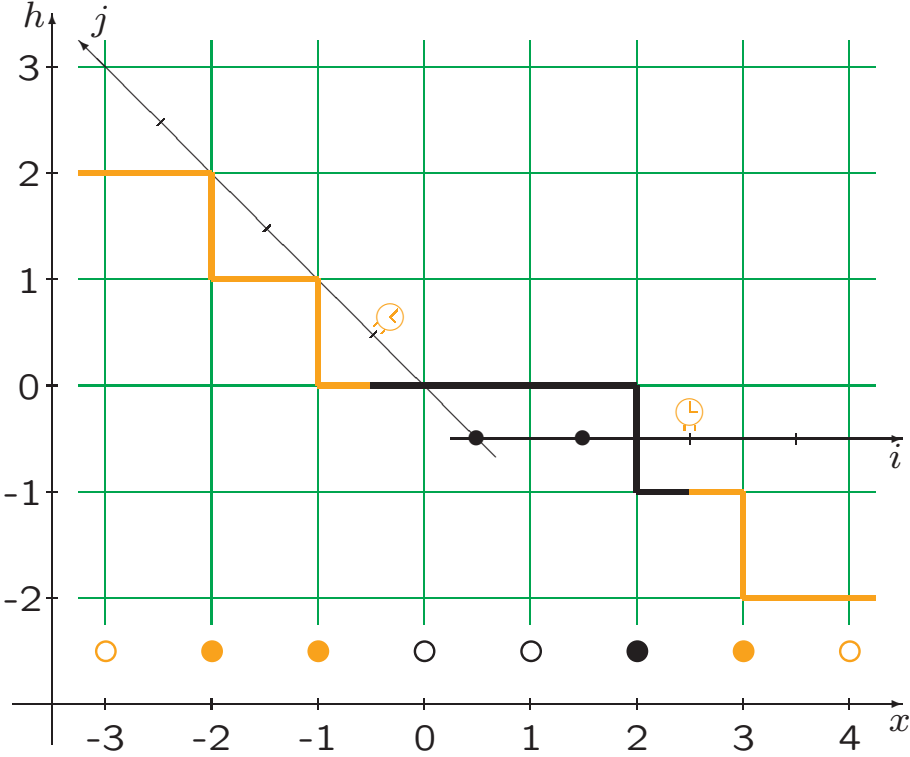
TASEP: Last passage percolation



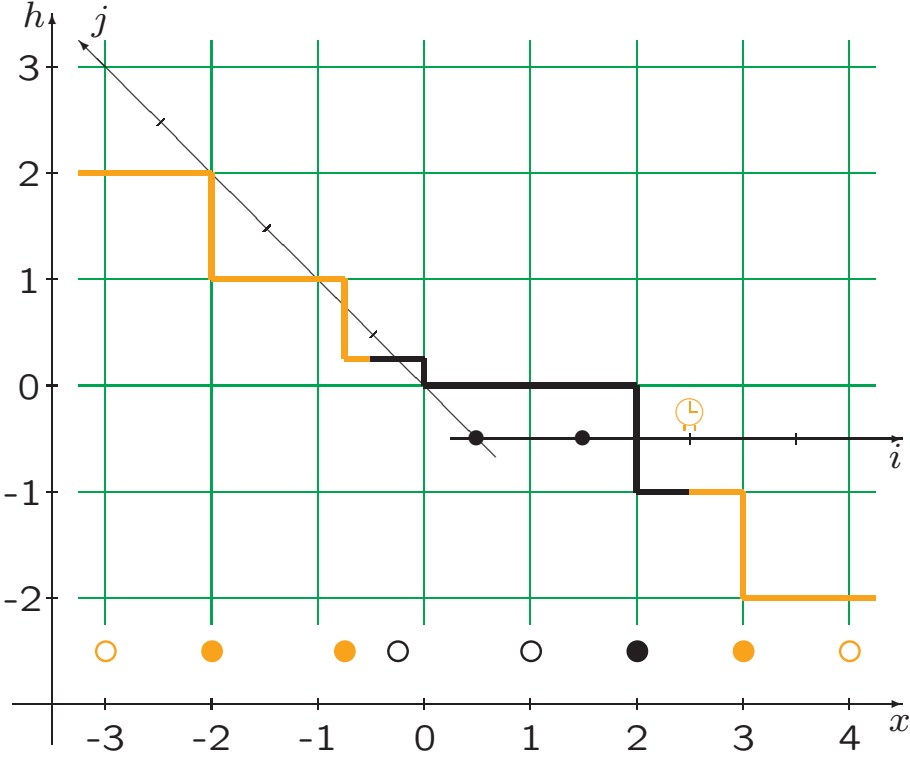
TASEP: Last passage percolation



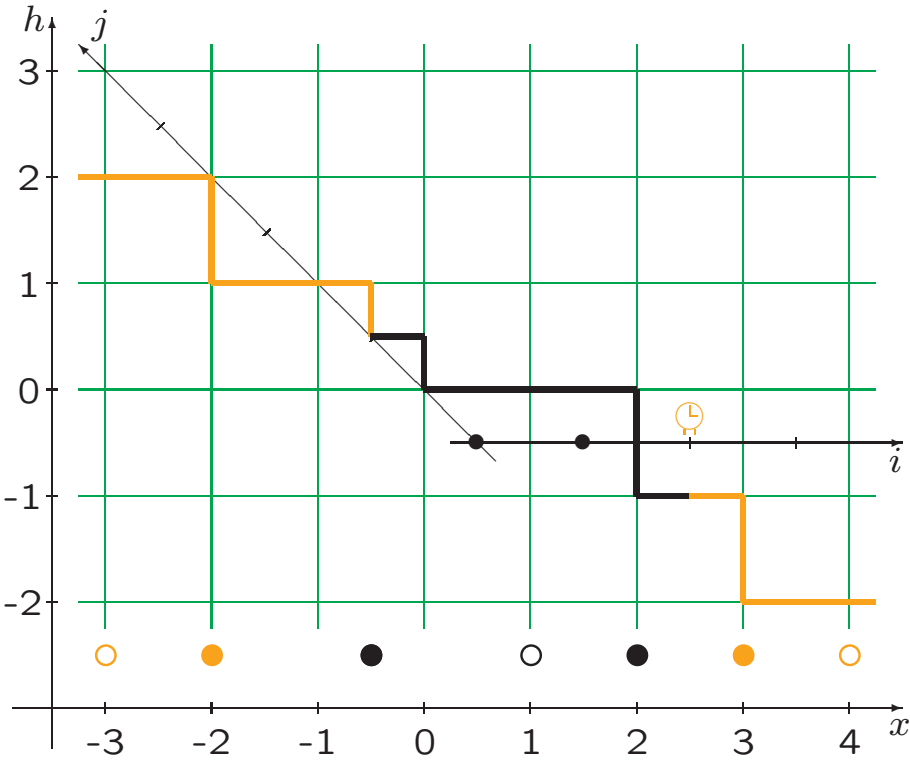
TASEP: Last passage percolation



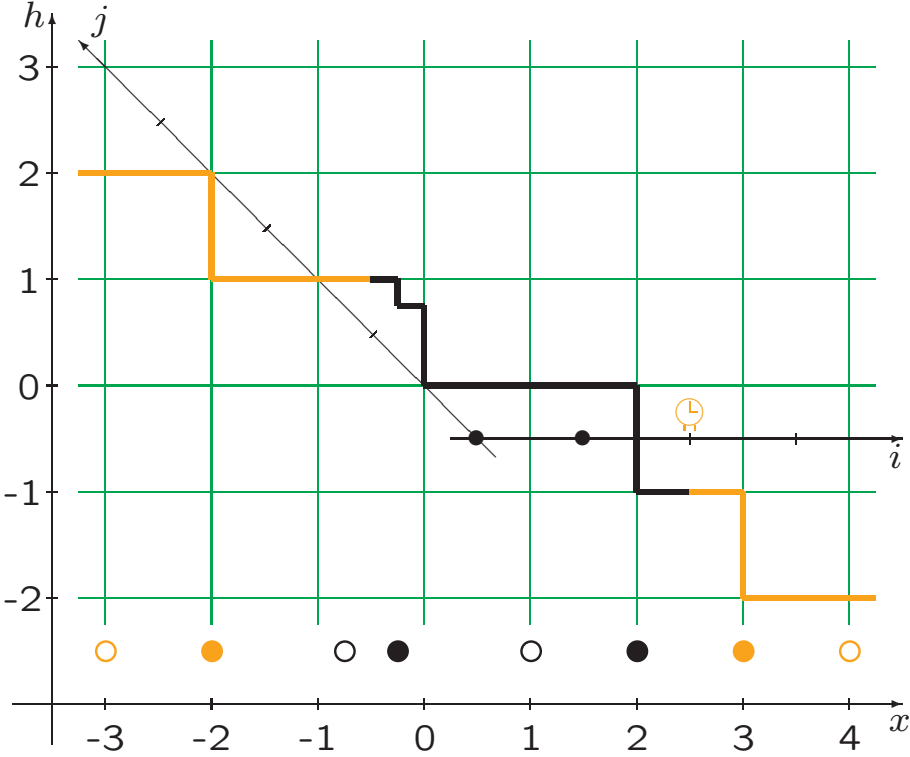
TASEP: Last passage percolation



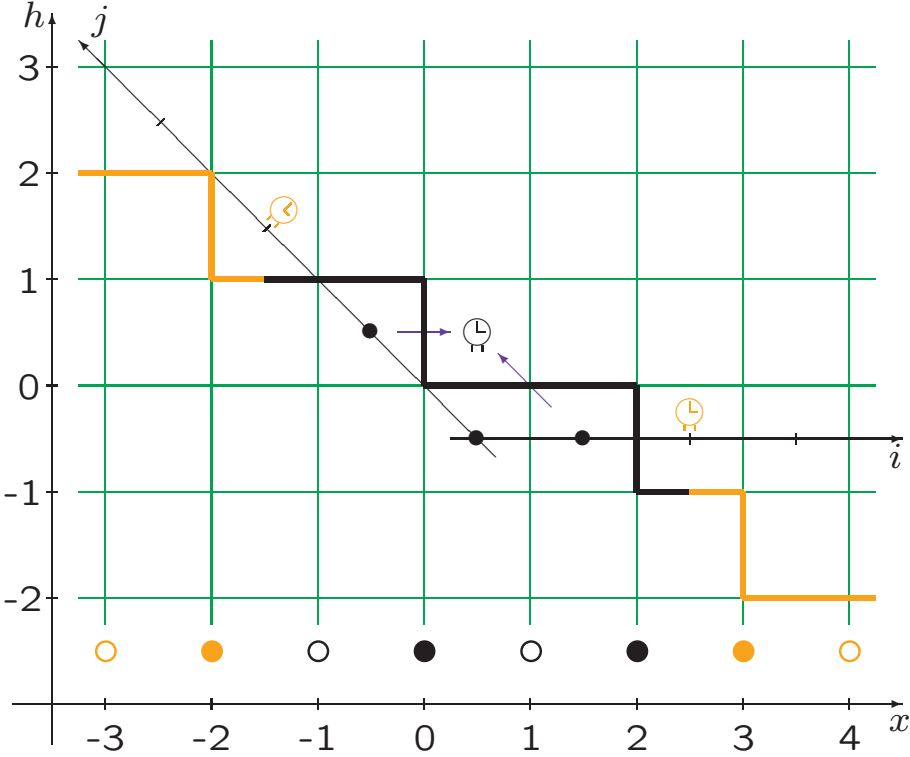
TASEP: Last passage percolation



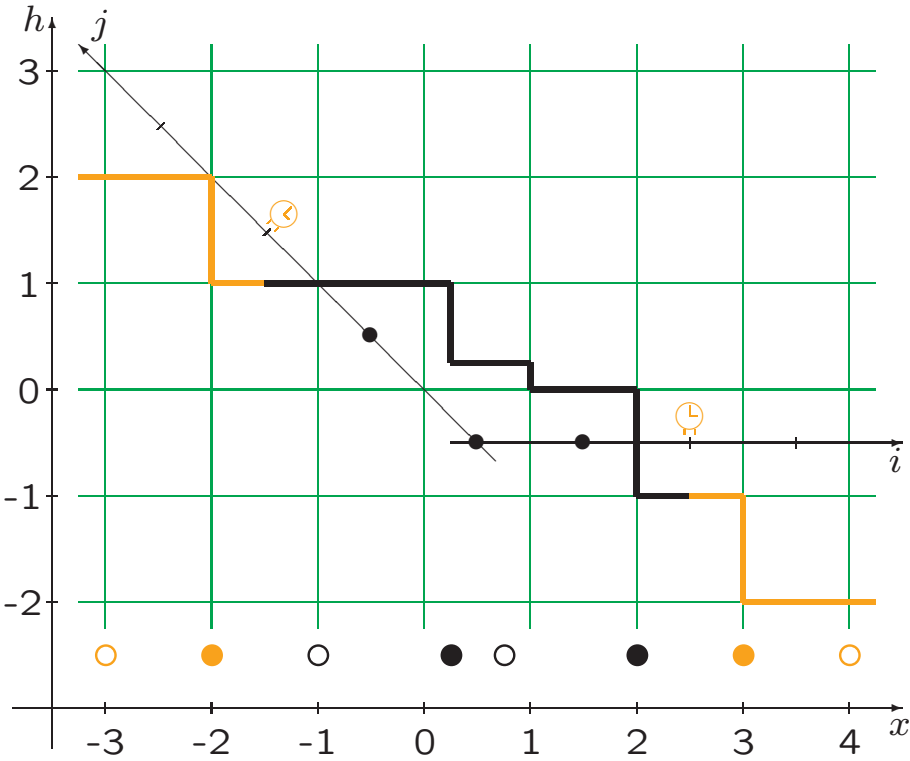
TASEP: Last passage percolation



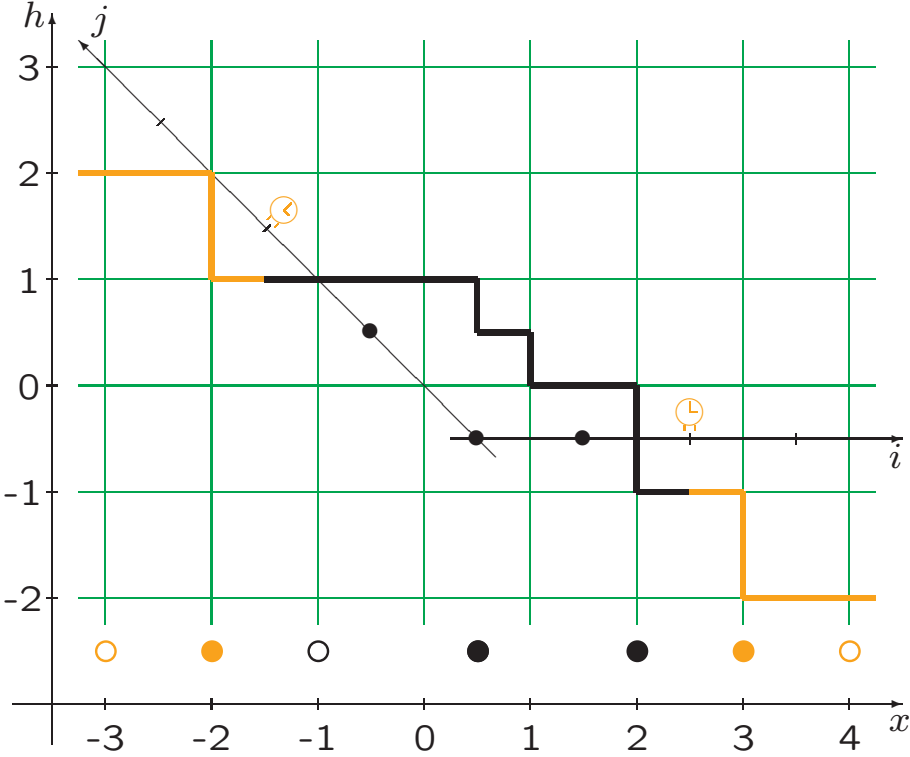
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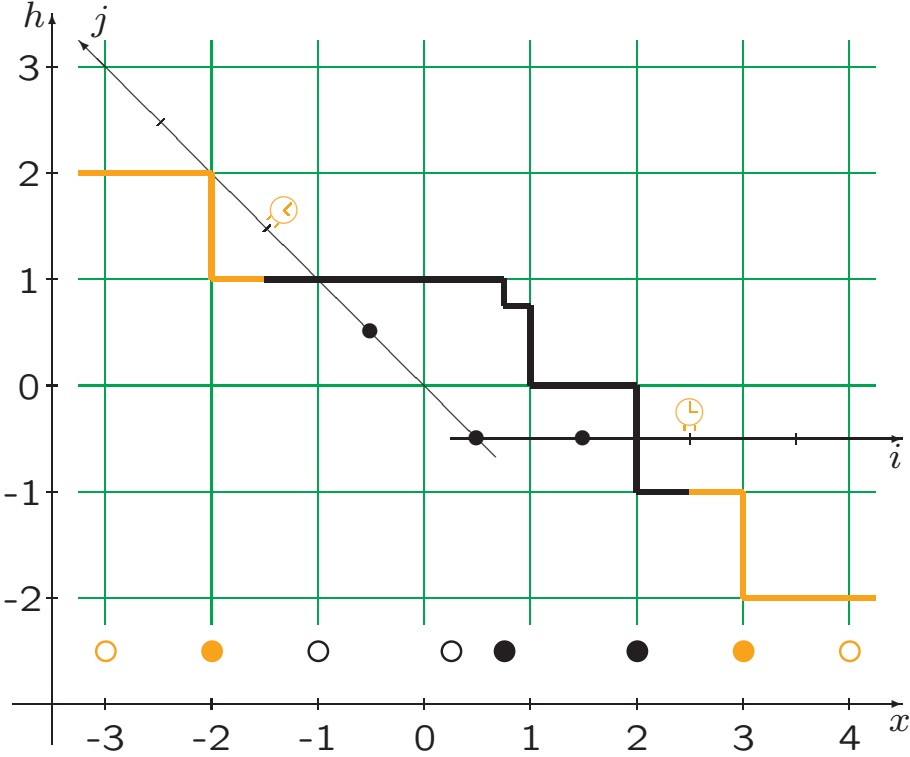
TASEP: Last passage percolation



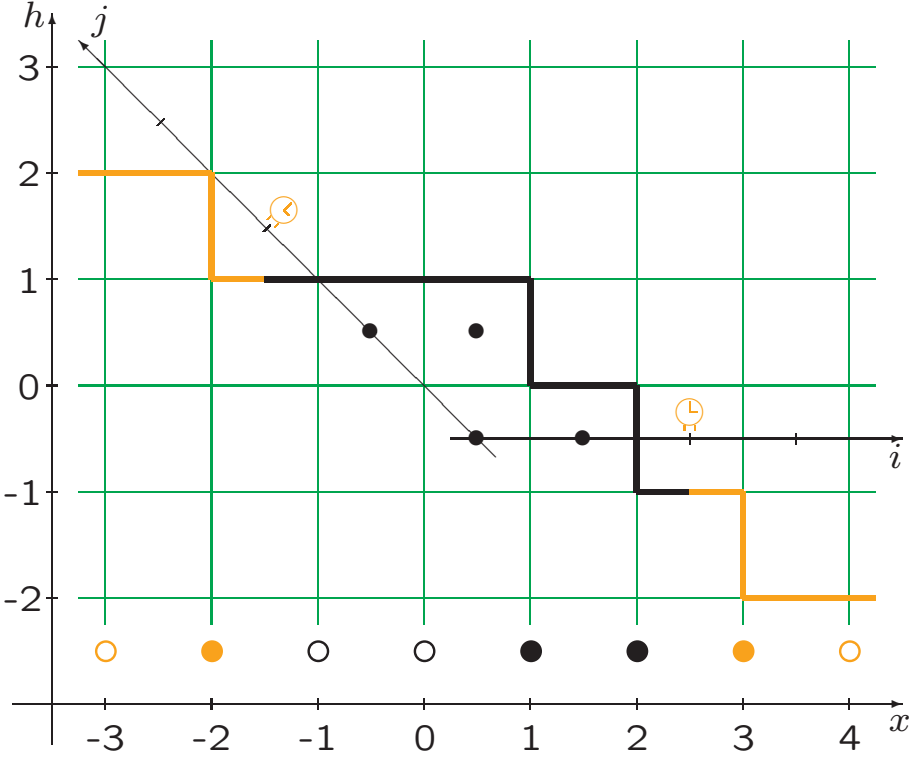
TASEP: Last passage percolation



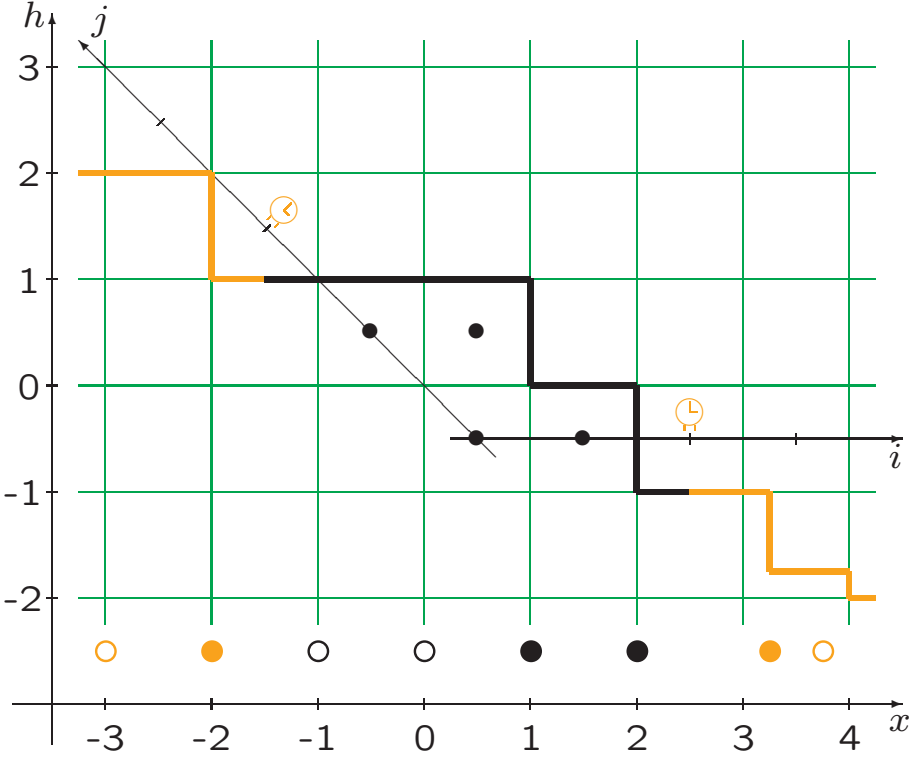
TASEP: Last passage percolation



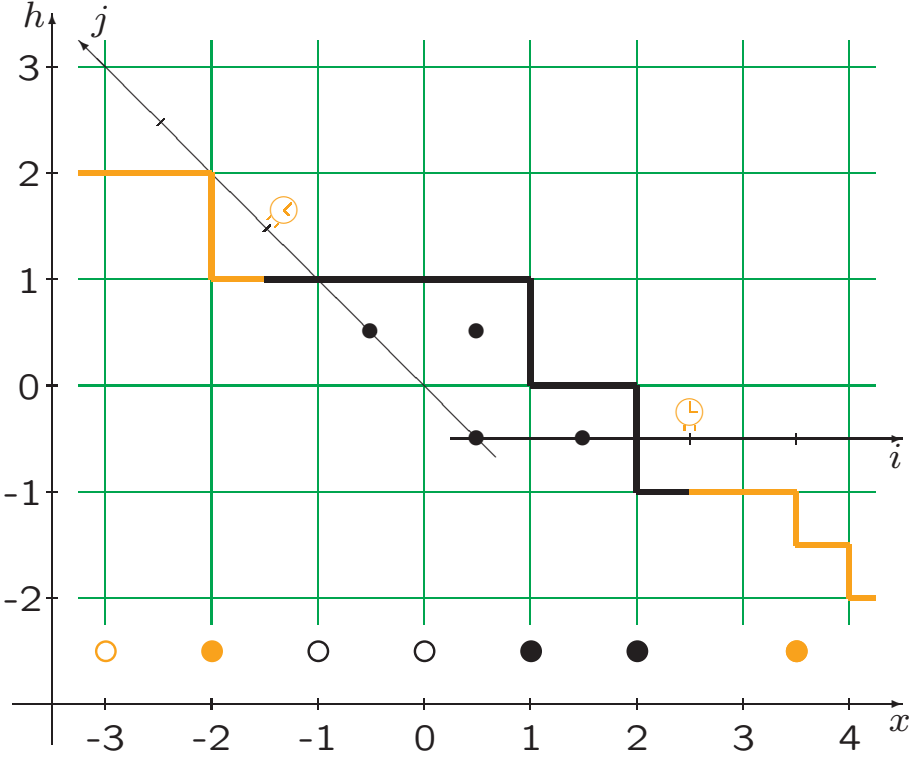
TASEP: Last passage percolation



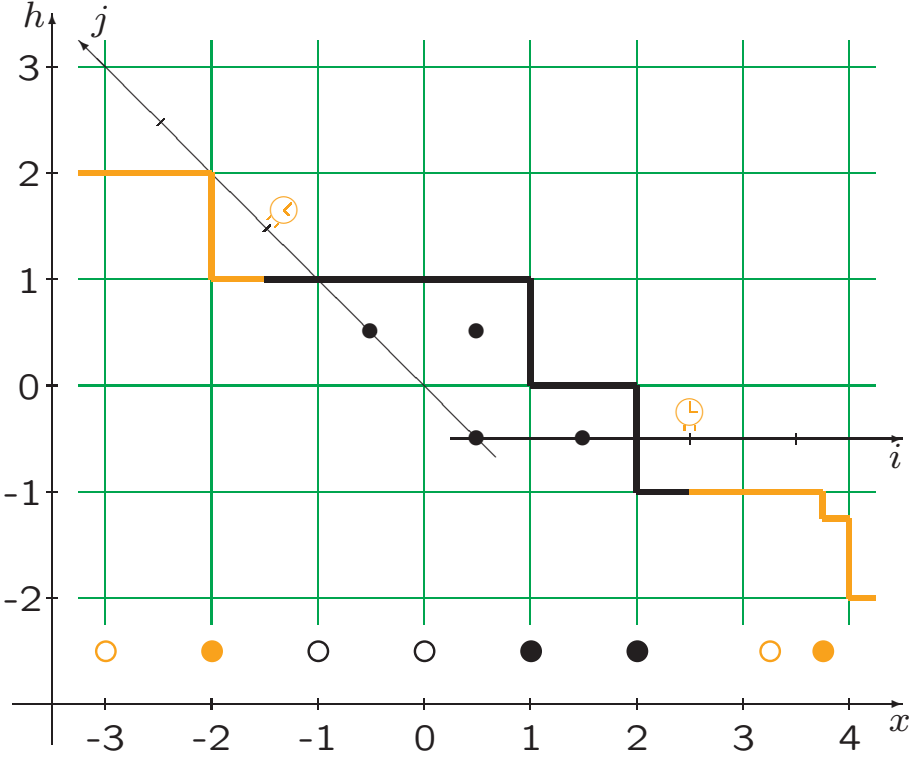
TASEP: Last passage percolation



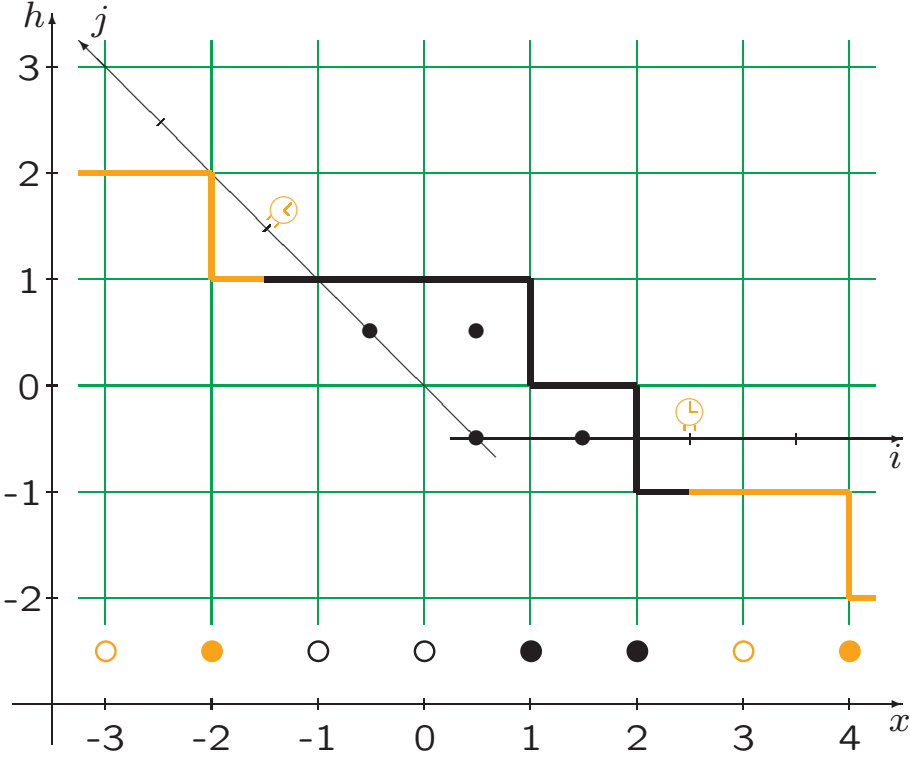
TASEP: Last passage percolation



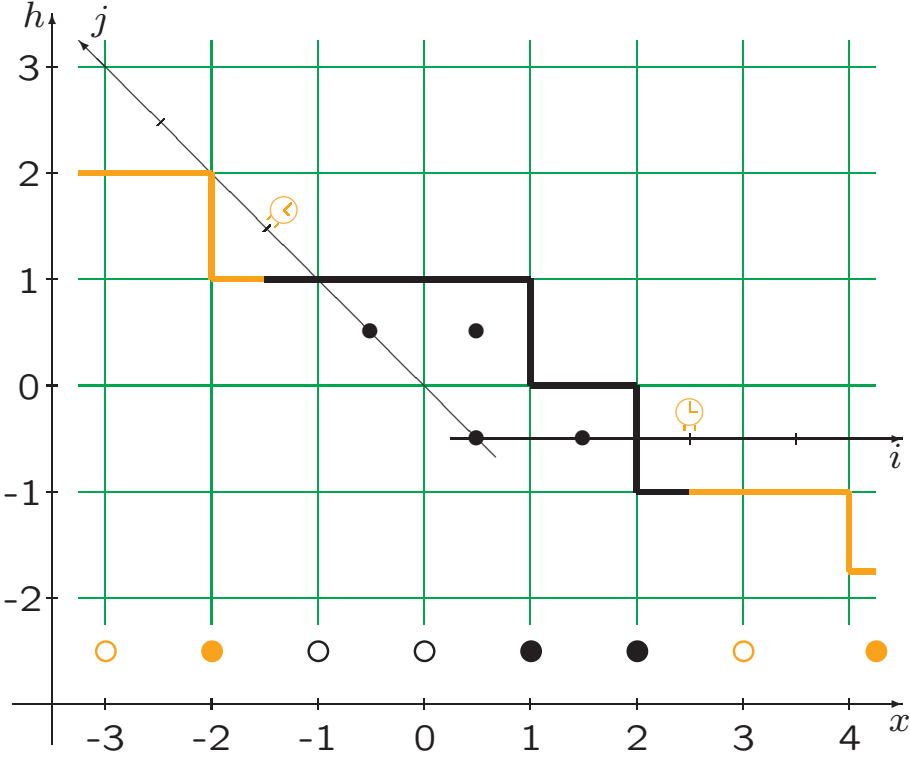
TASEP: Last passage percolation



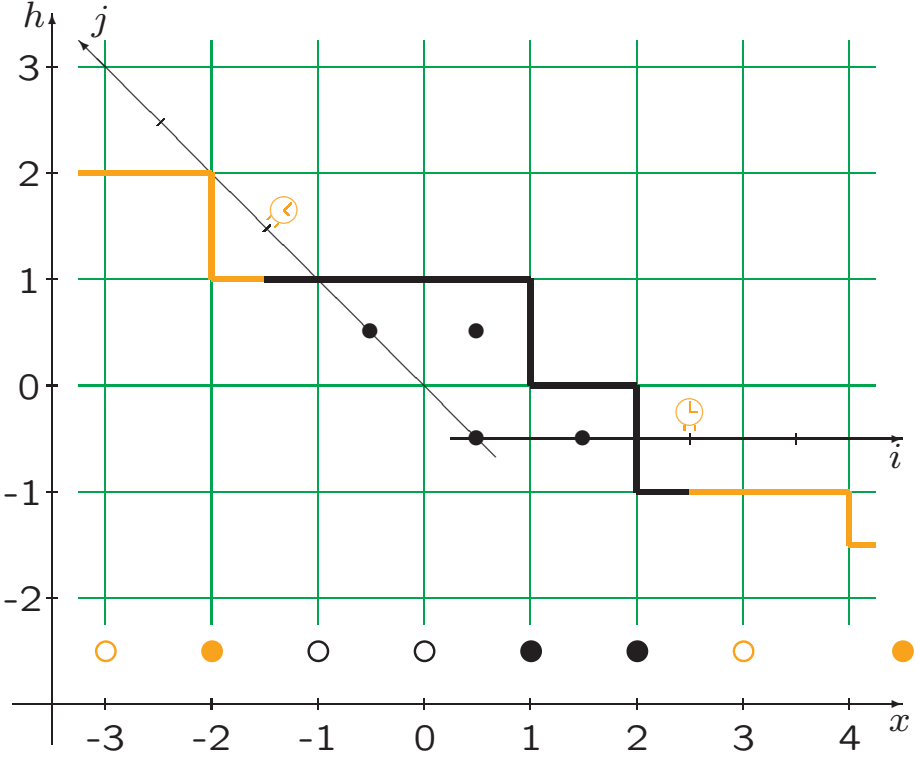
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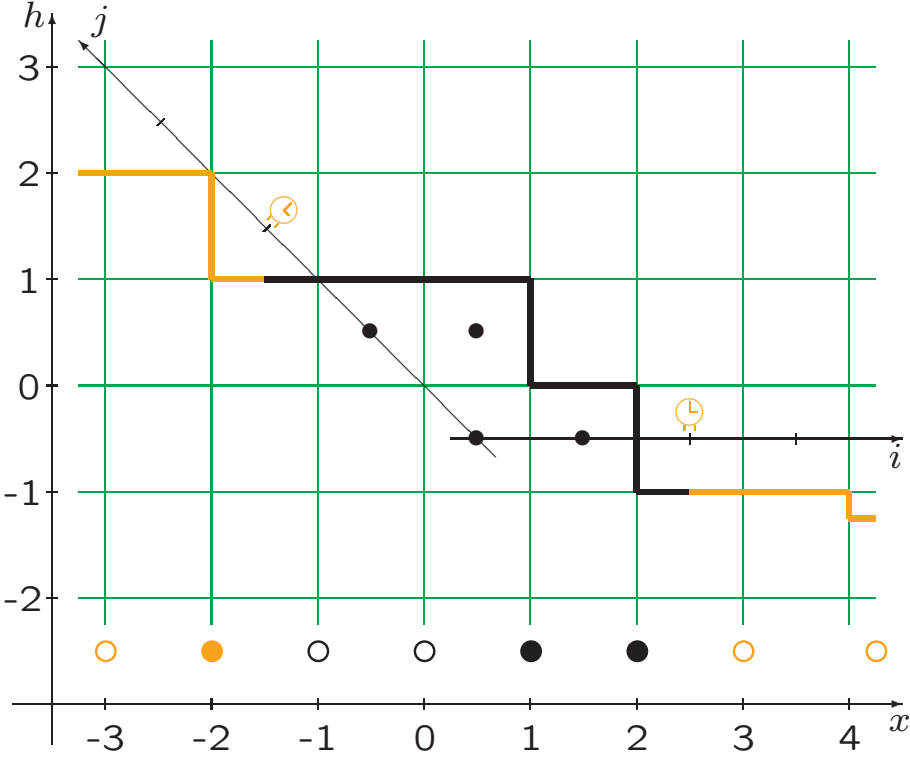
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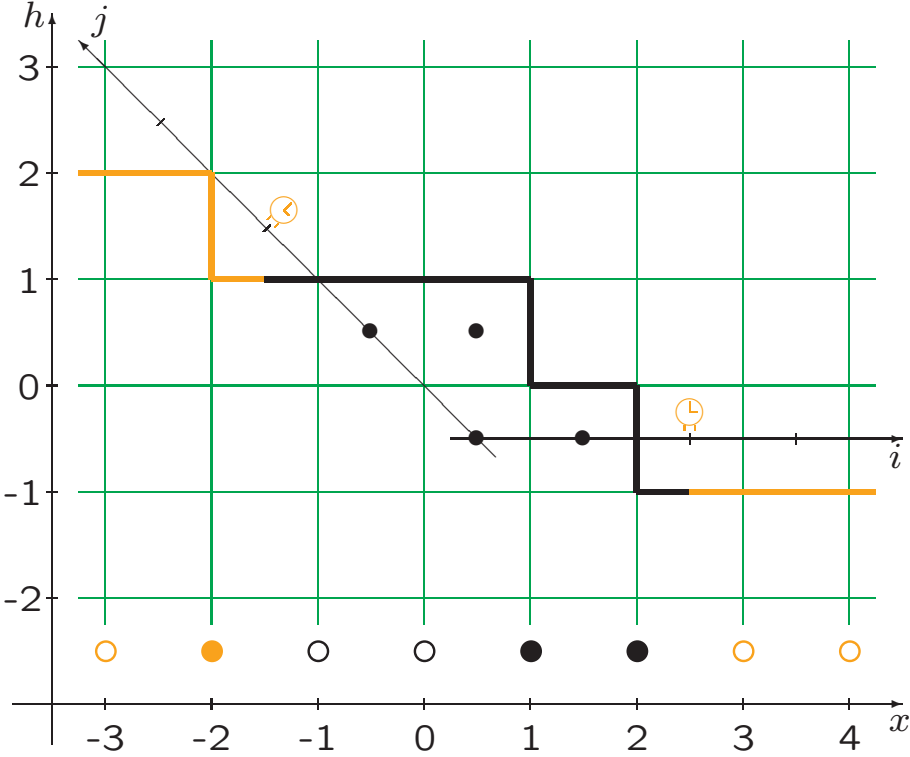
TASEP: Last passage percolation



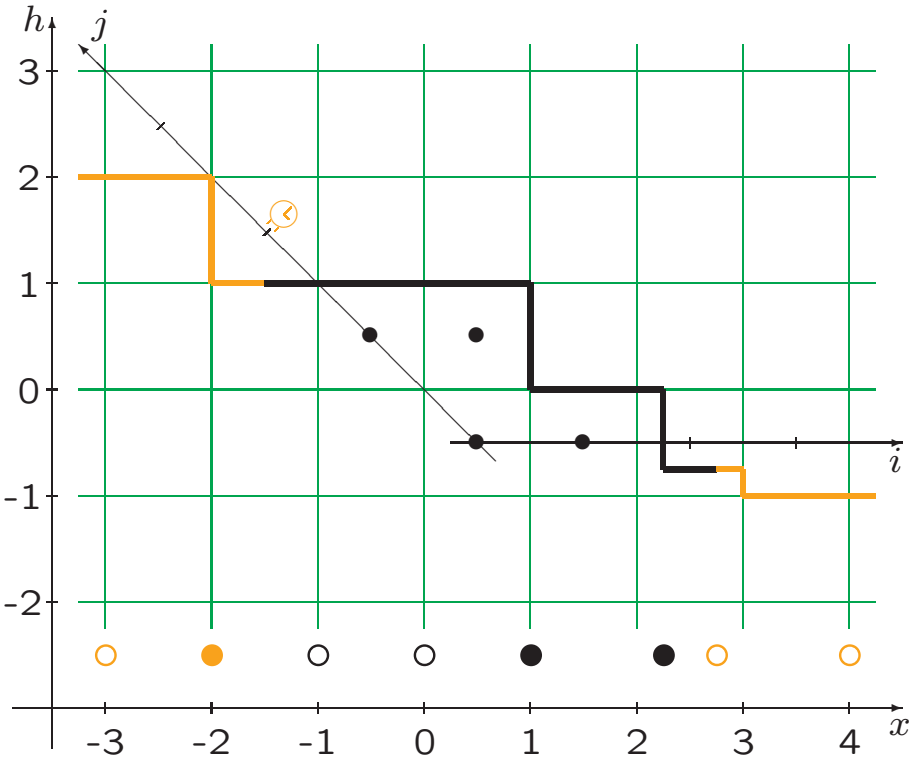
TASEP: Last passage percolation



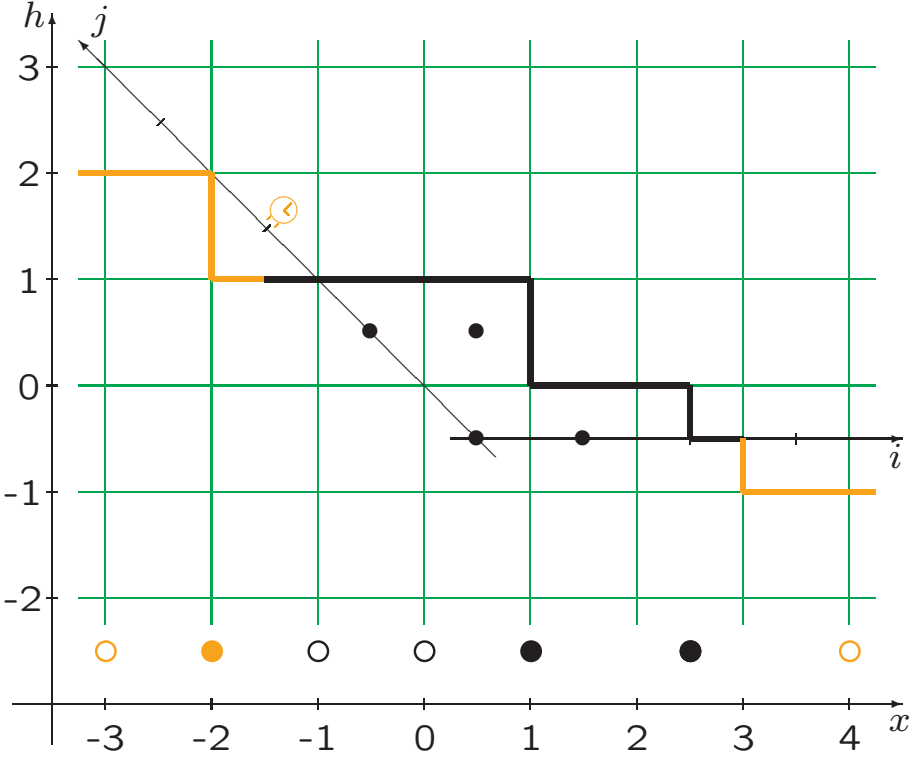
TASEP: Last passage percolation



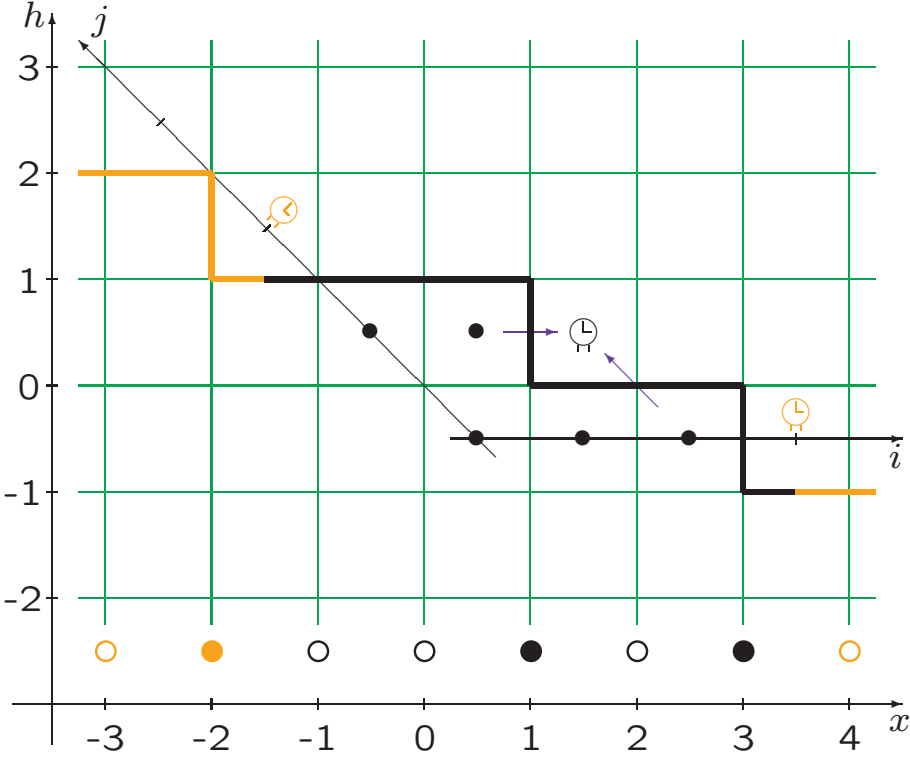
TASEP: Last passage percolation



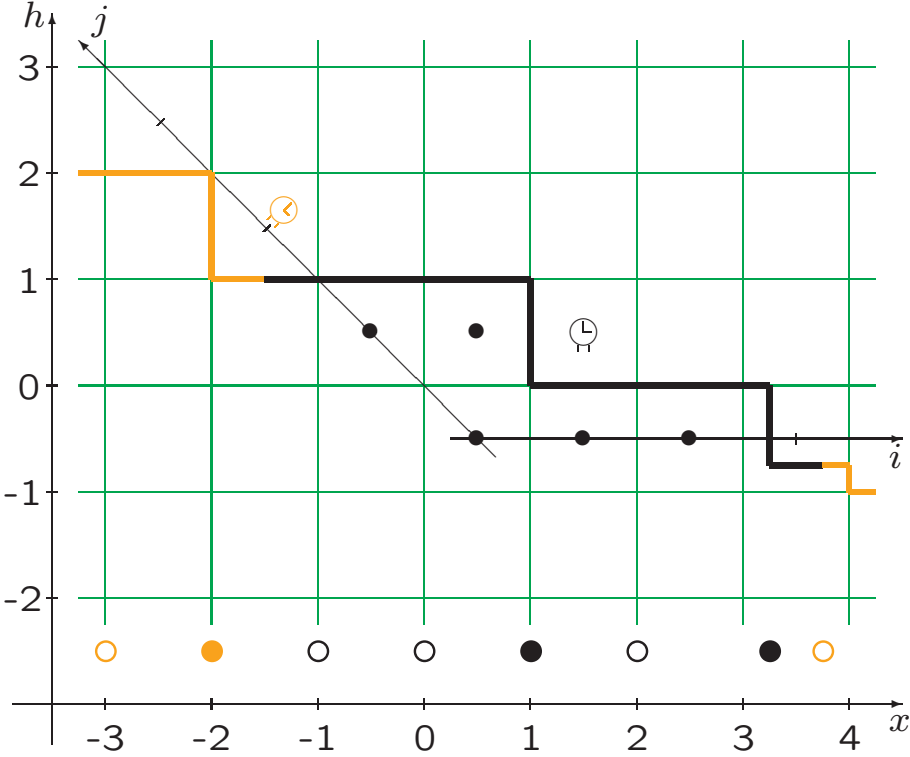
TASEP: Last passage percolation



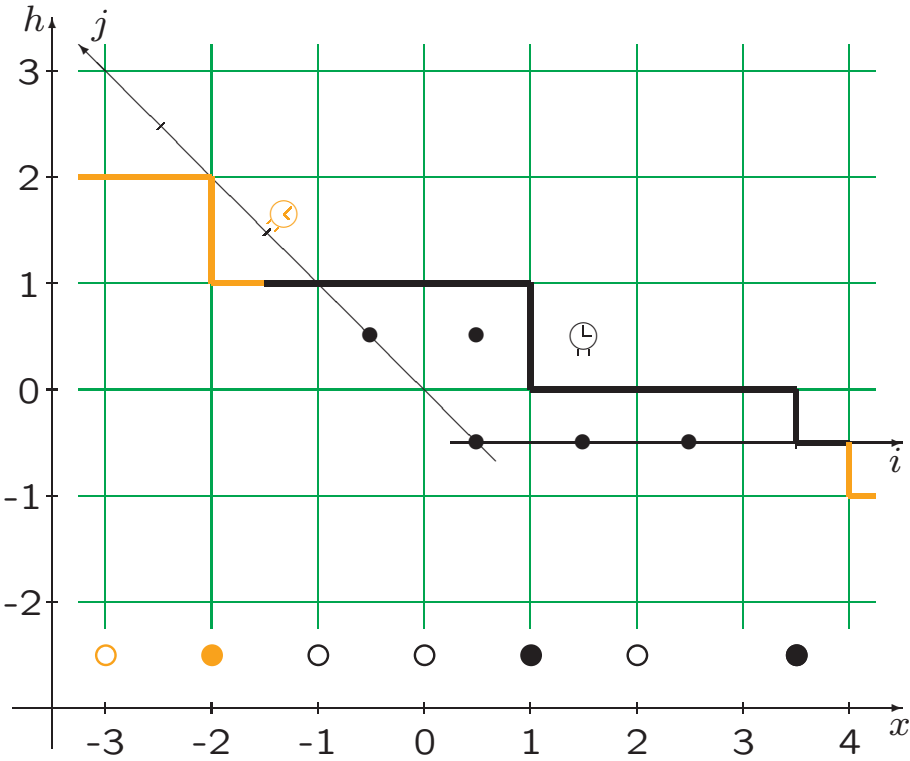
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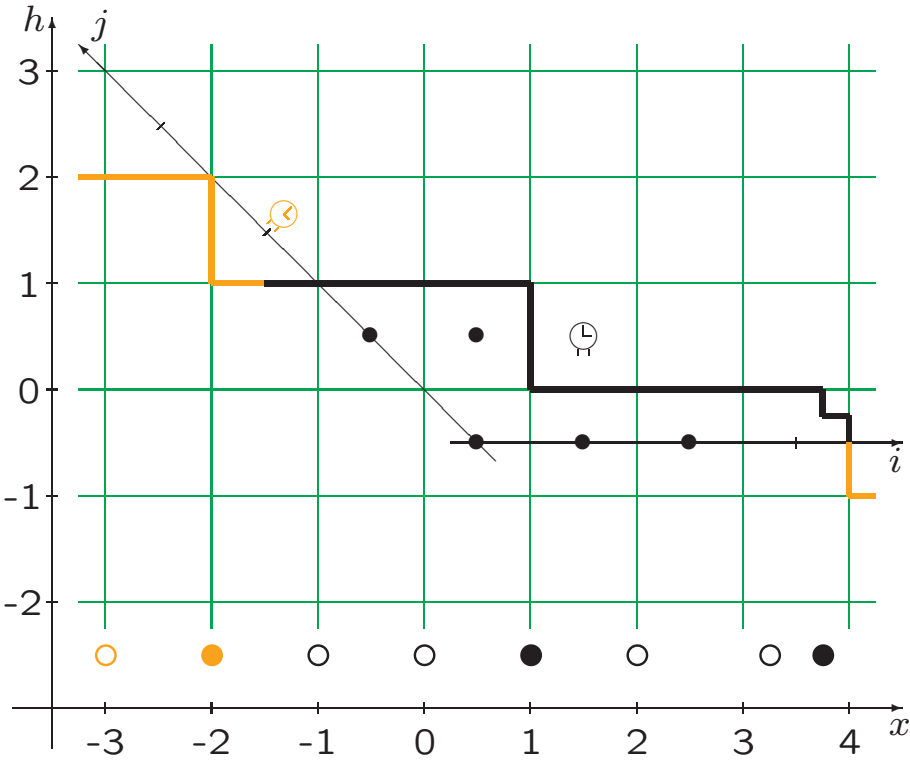
TASEP: Last passage percolation



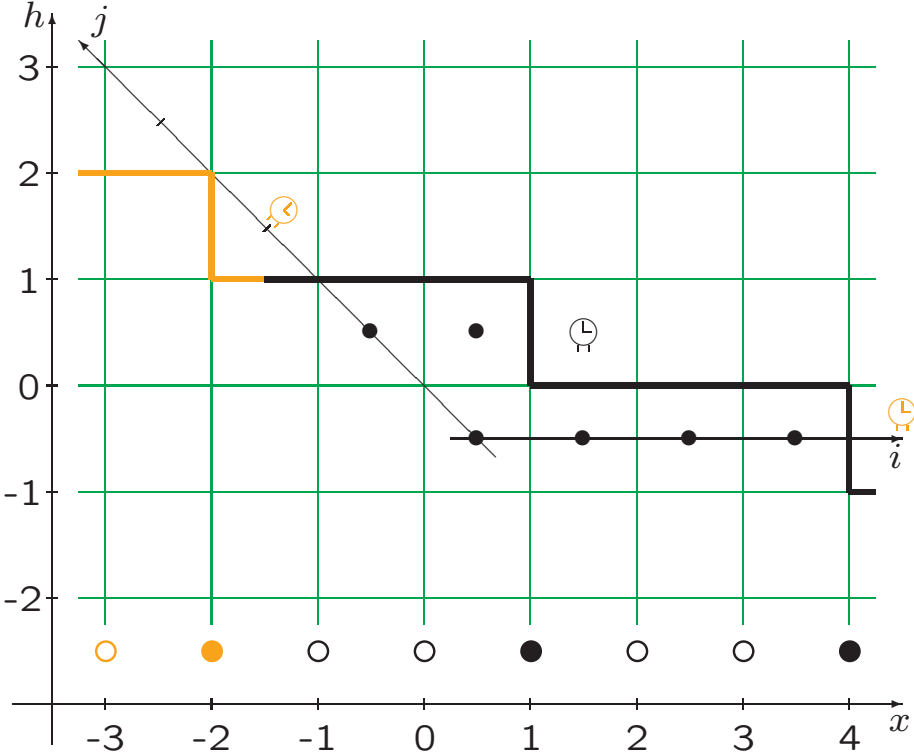
TASEP: Last passage percolation



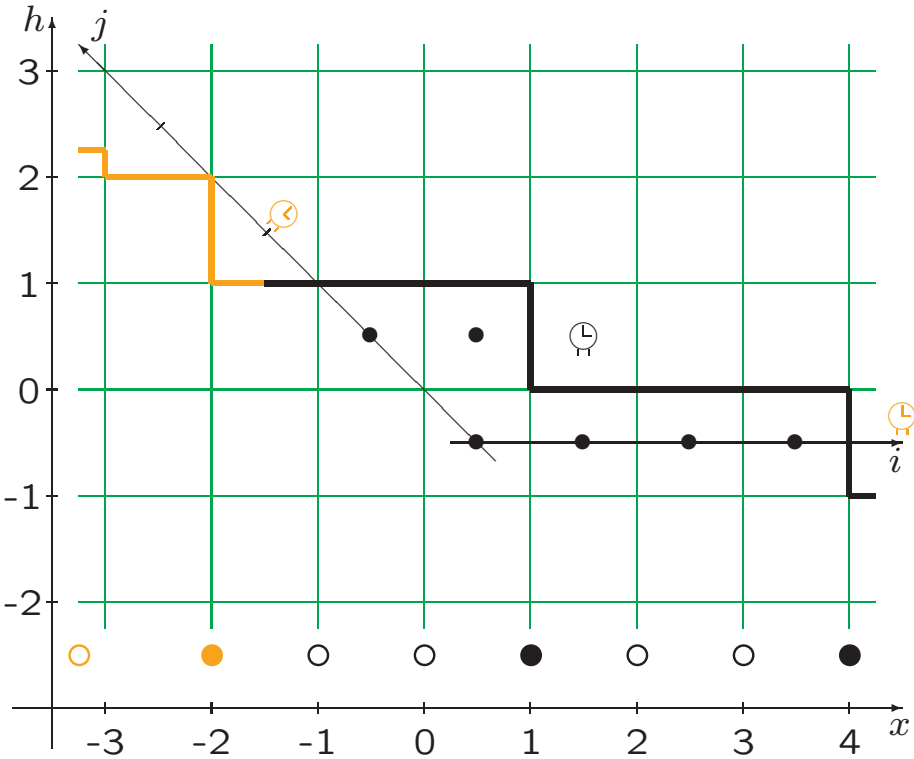
TASEP: Last passage percolation



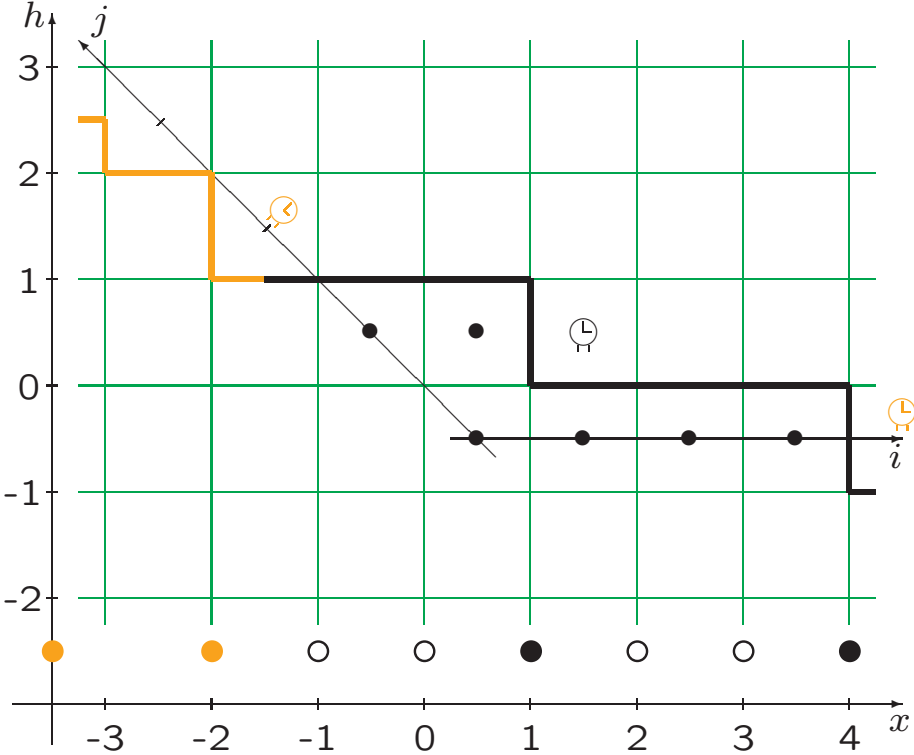
TASEP: Last passage percolation



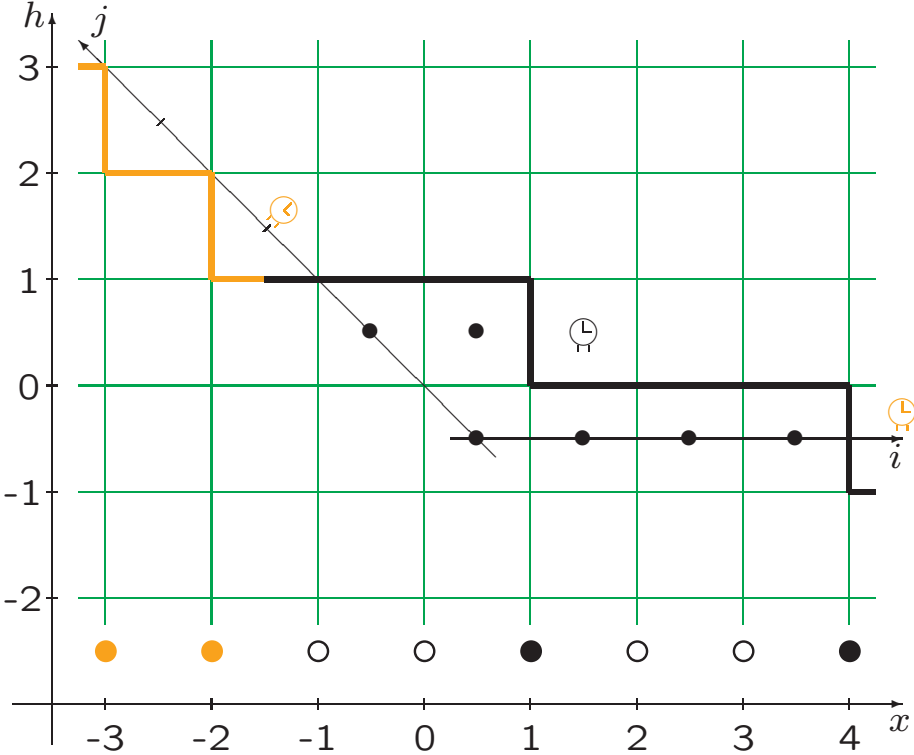
TASEP: Last passage percolation



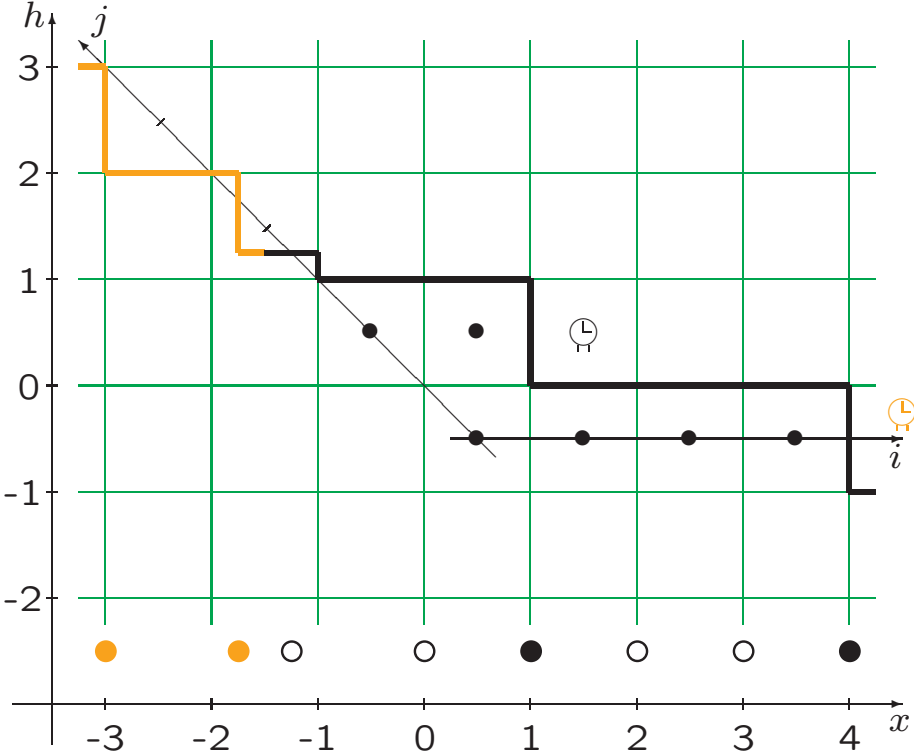
TASEP: Last passage percolation



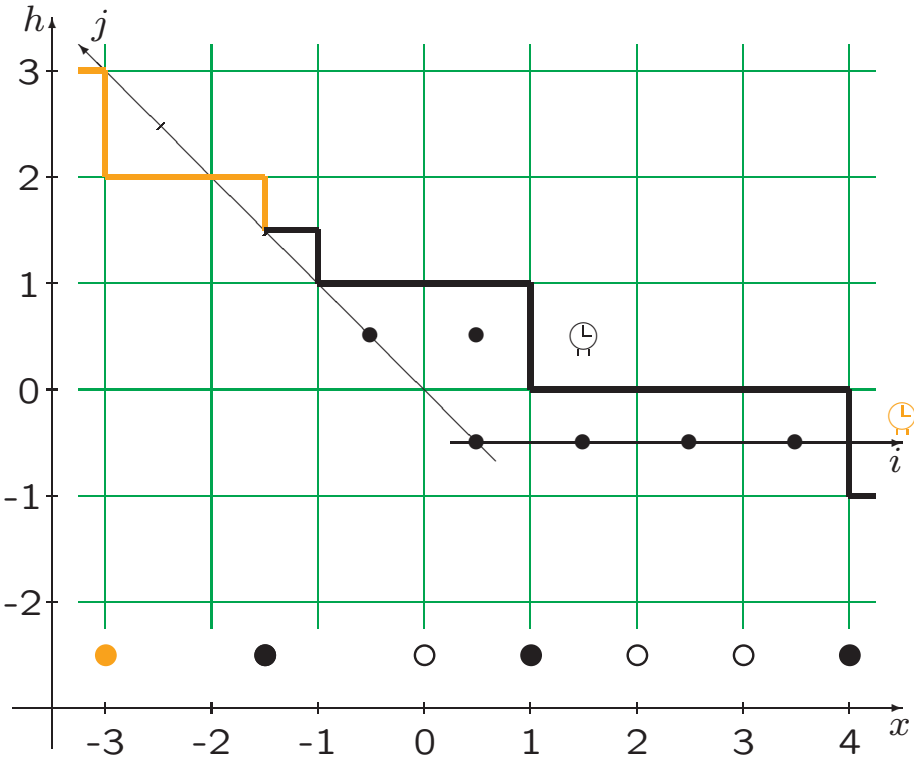
TASEP: Last passage percolation



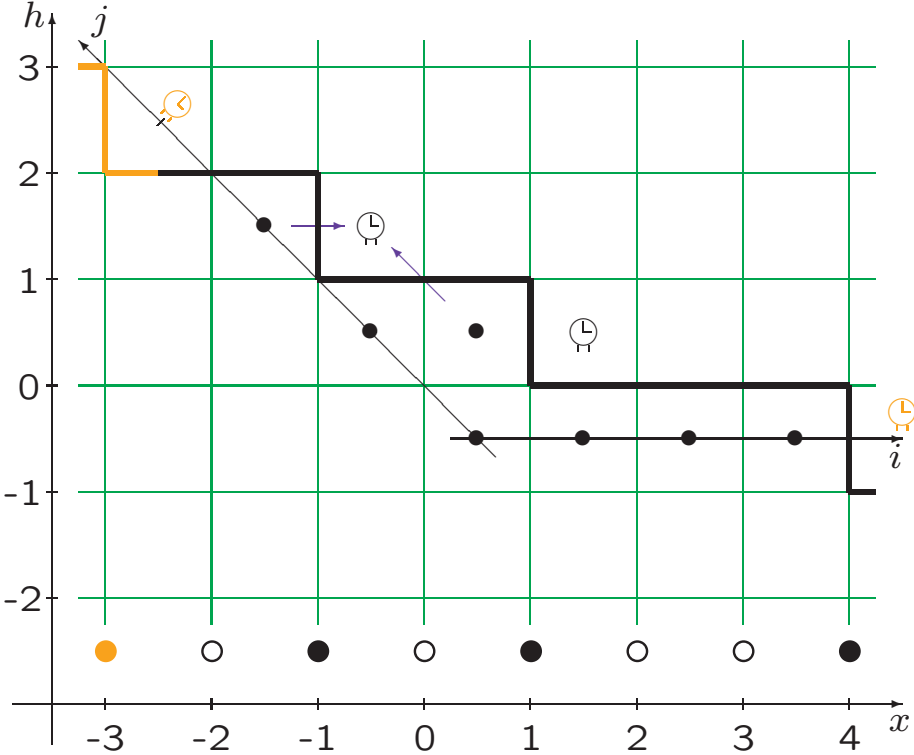
TASEP: Last passage percolation



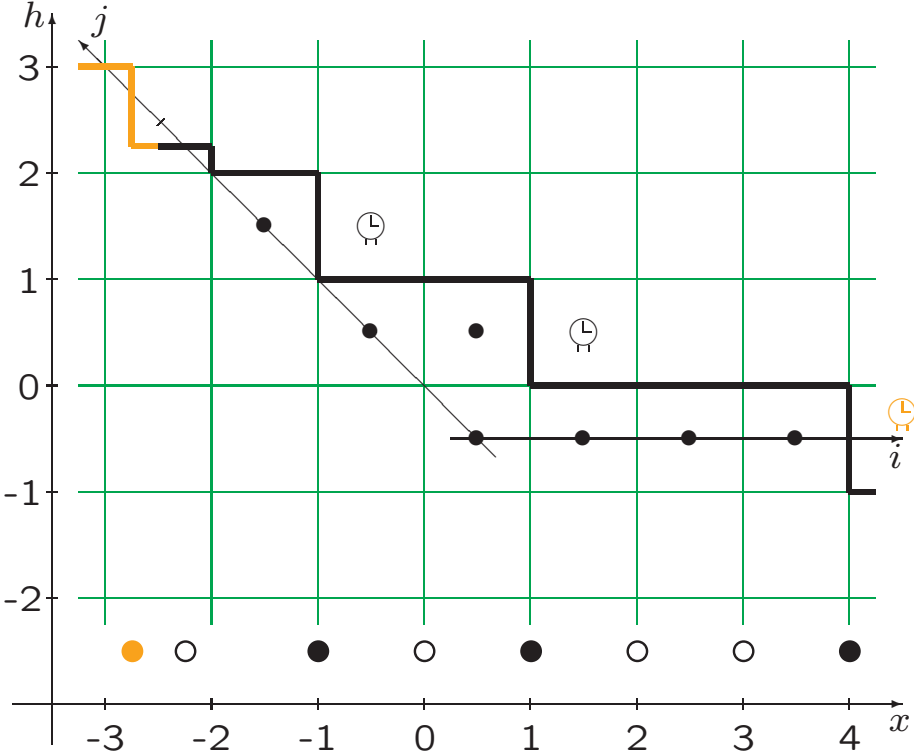
TASEP: Last passage percolation



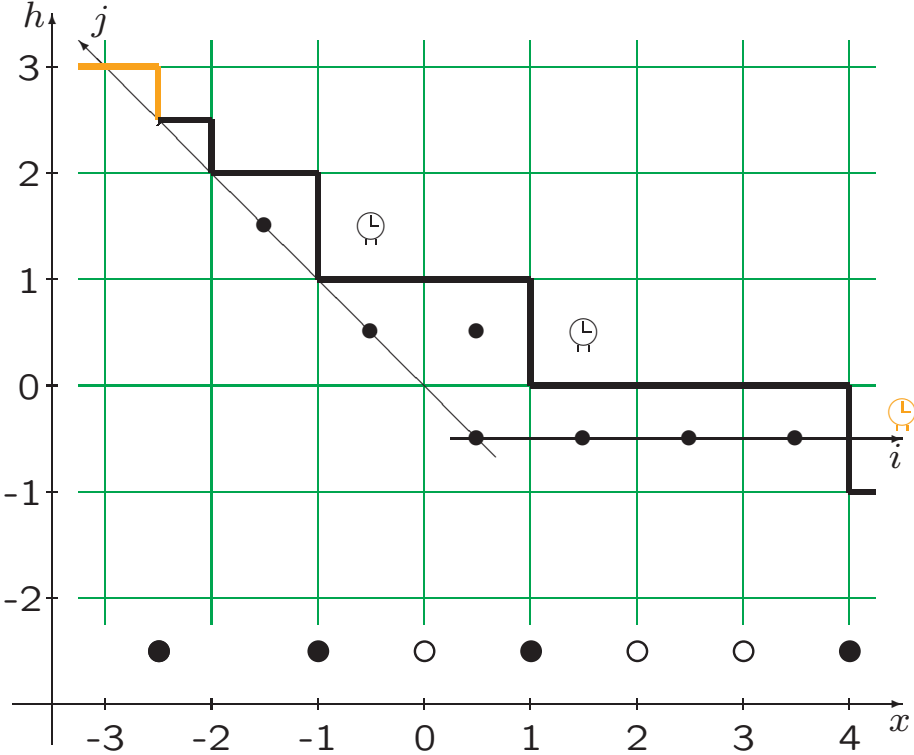
TASEP: Last passage percolation



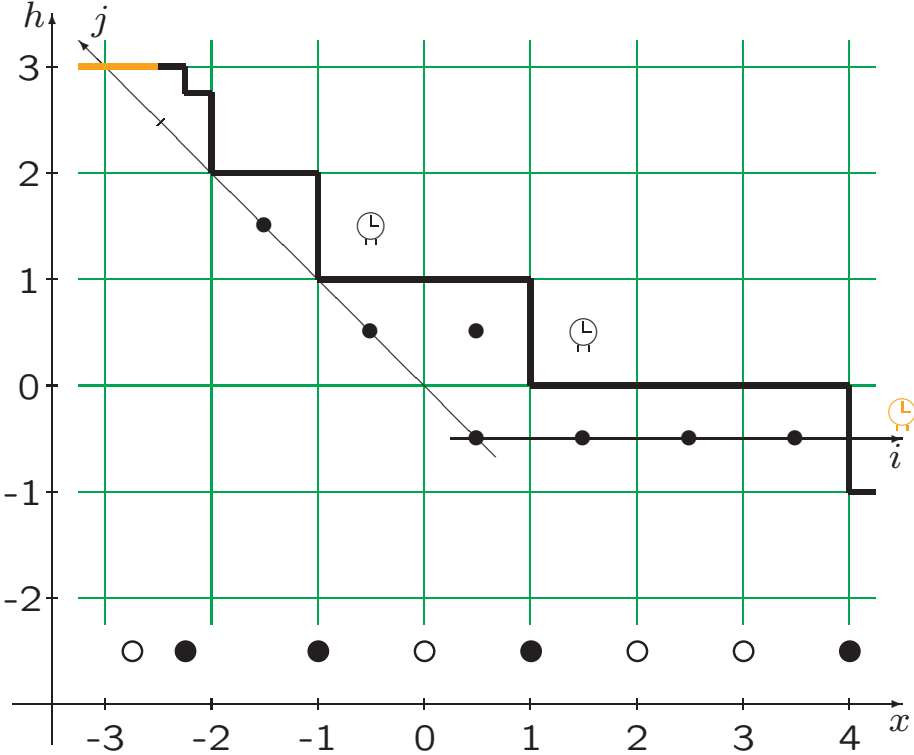
TASEP: Last passage percolation



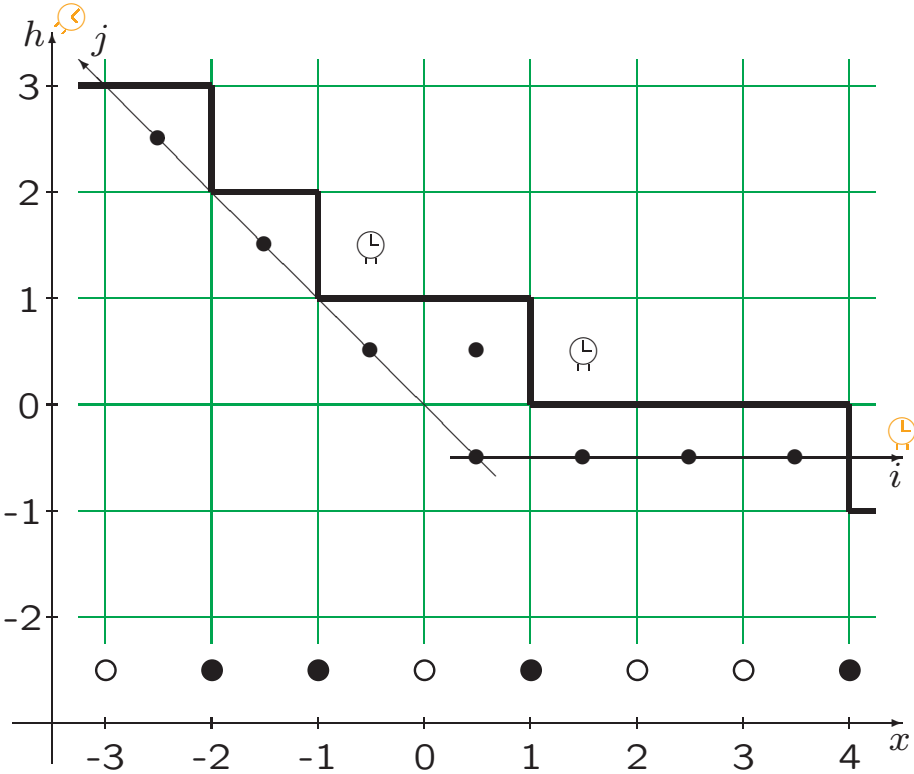
TASEP: Last passage percolation



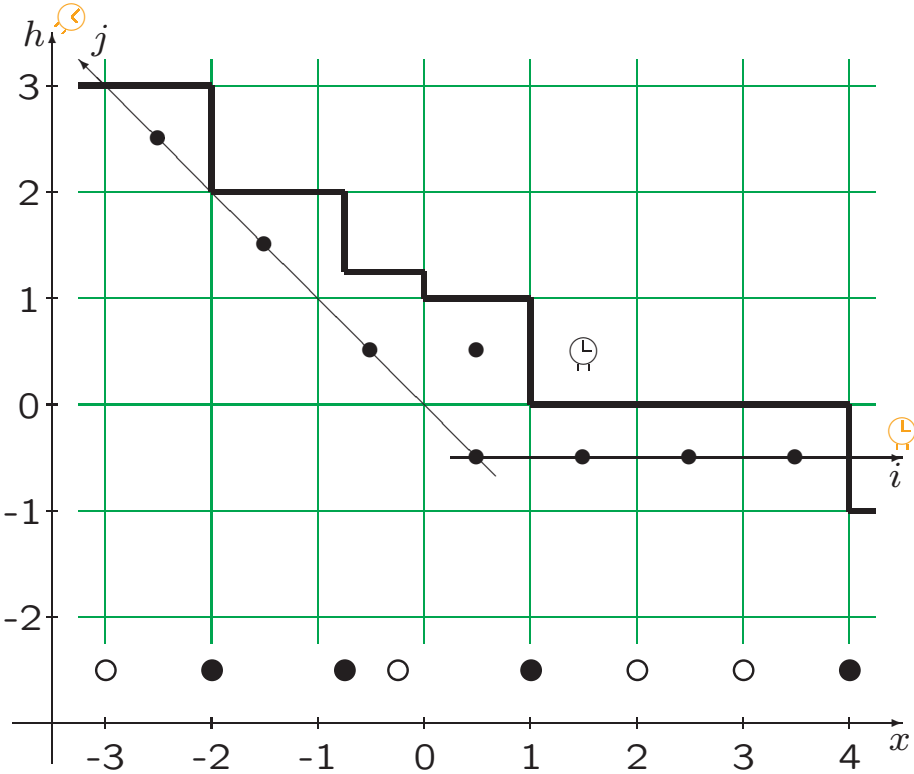
TASEP: Last passage percolation



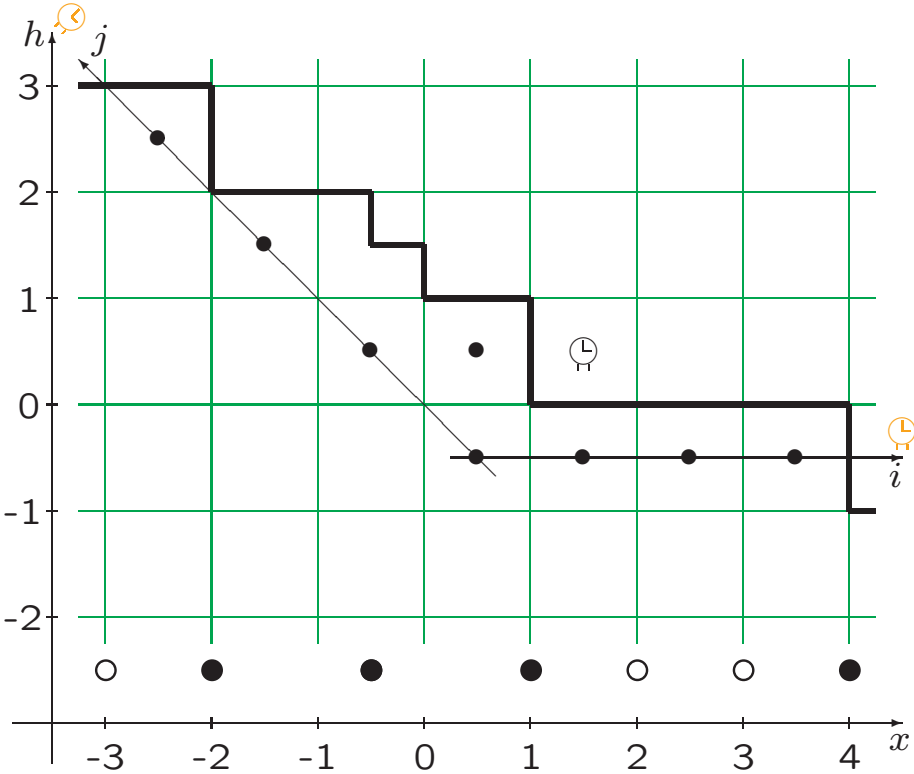
TASEP: Last passage percolation



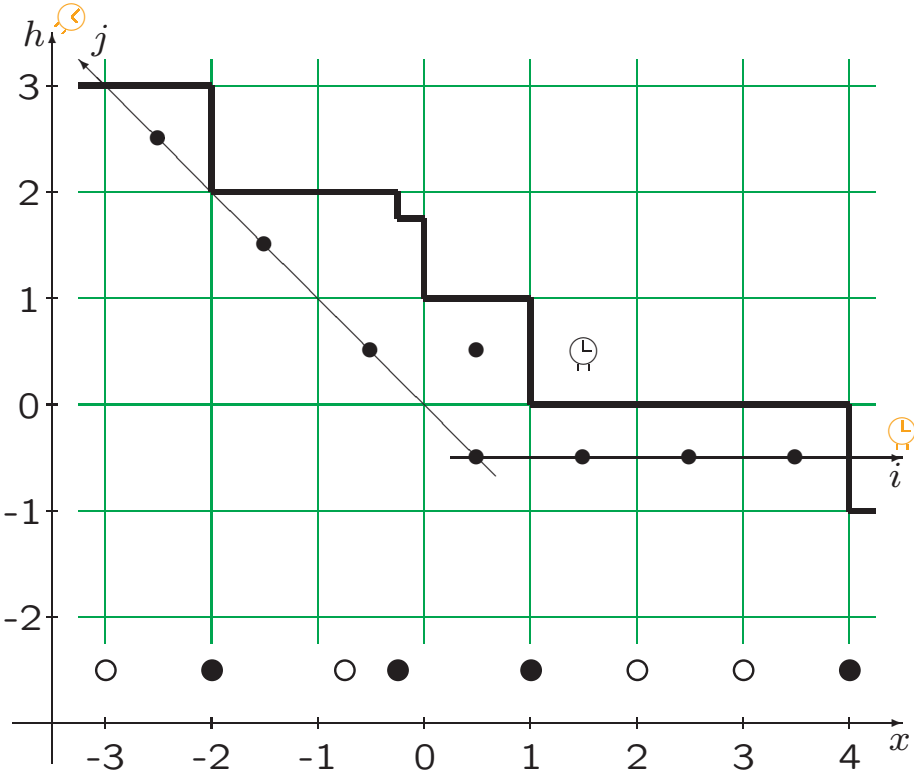
TASEP: Last passage percolation



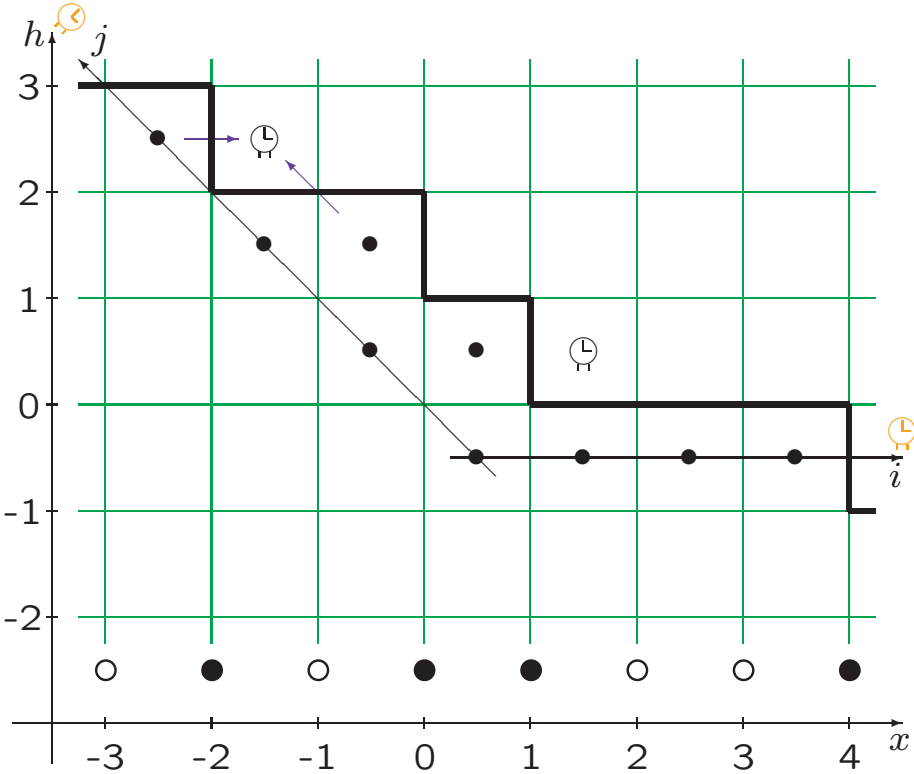
TASEP: Last passage percolation

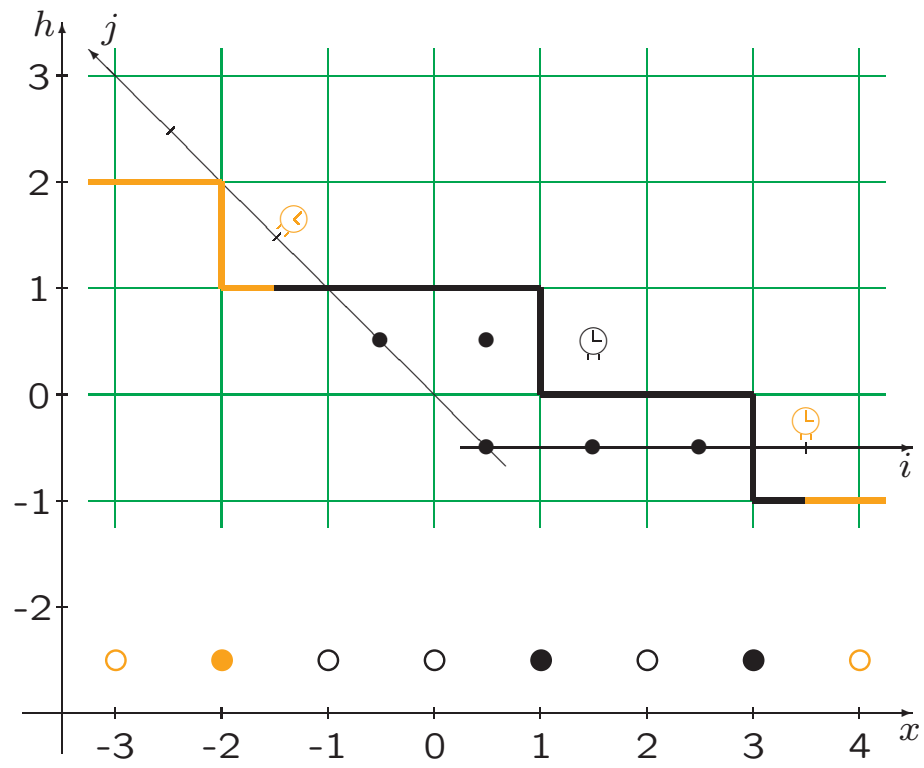


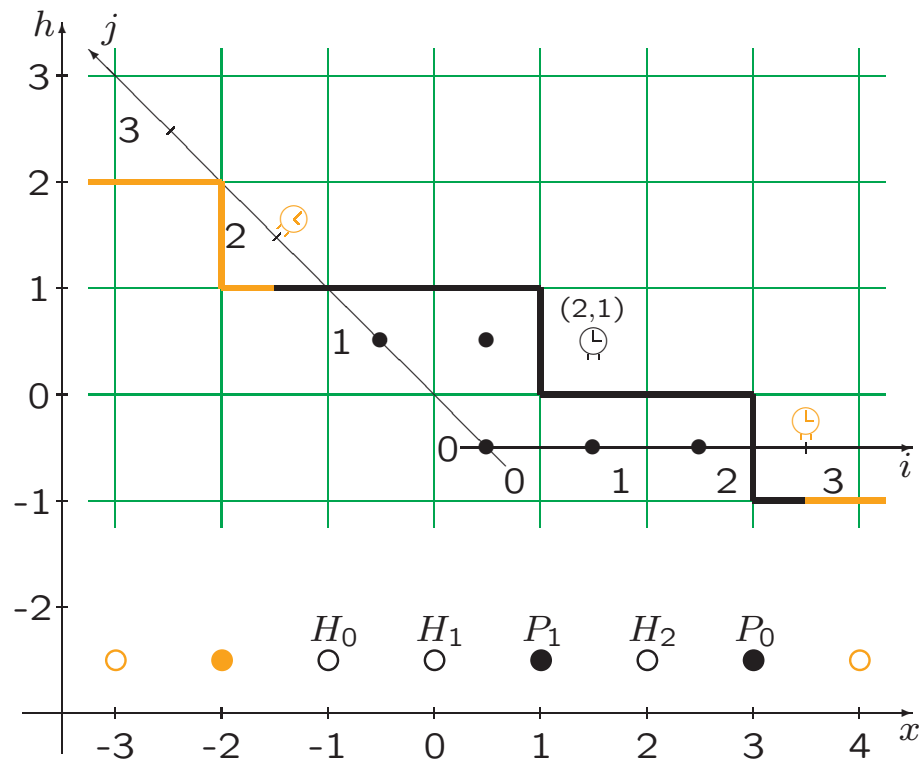
TASEP: Last passage percolation

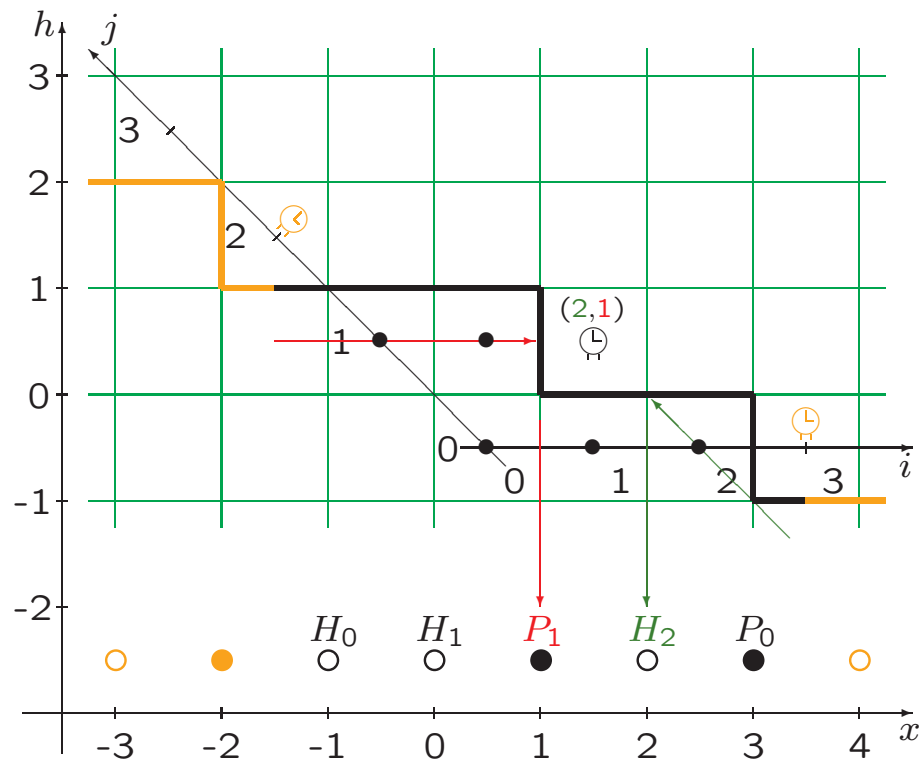


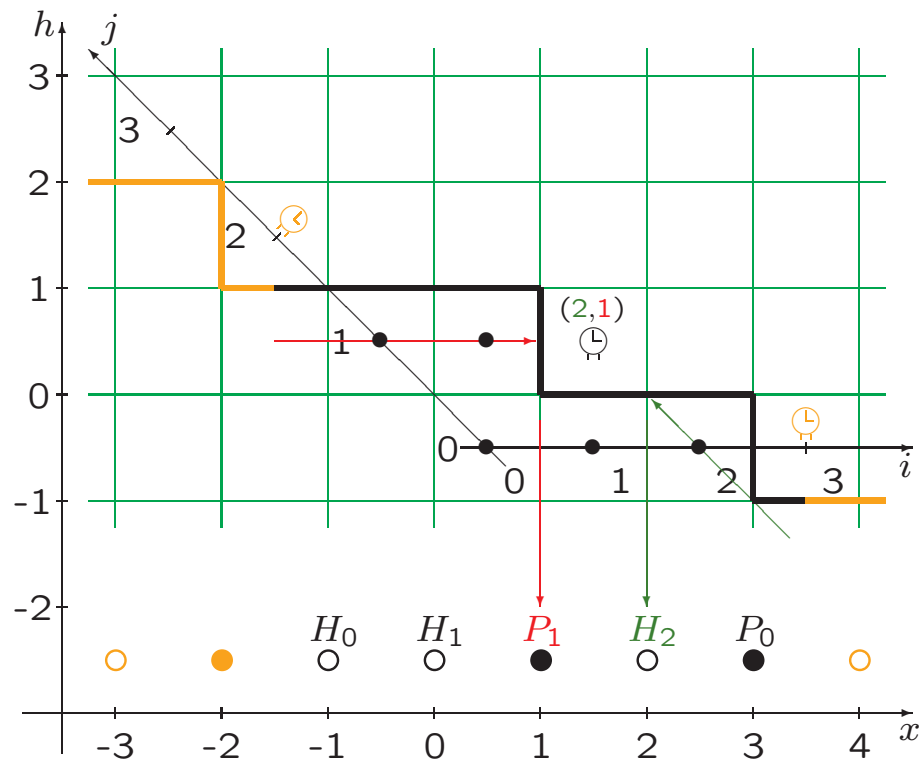
TASEP: Last passage percolation



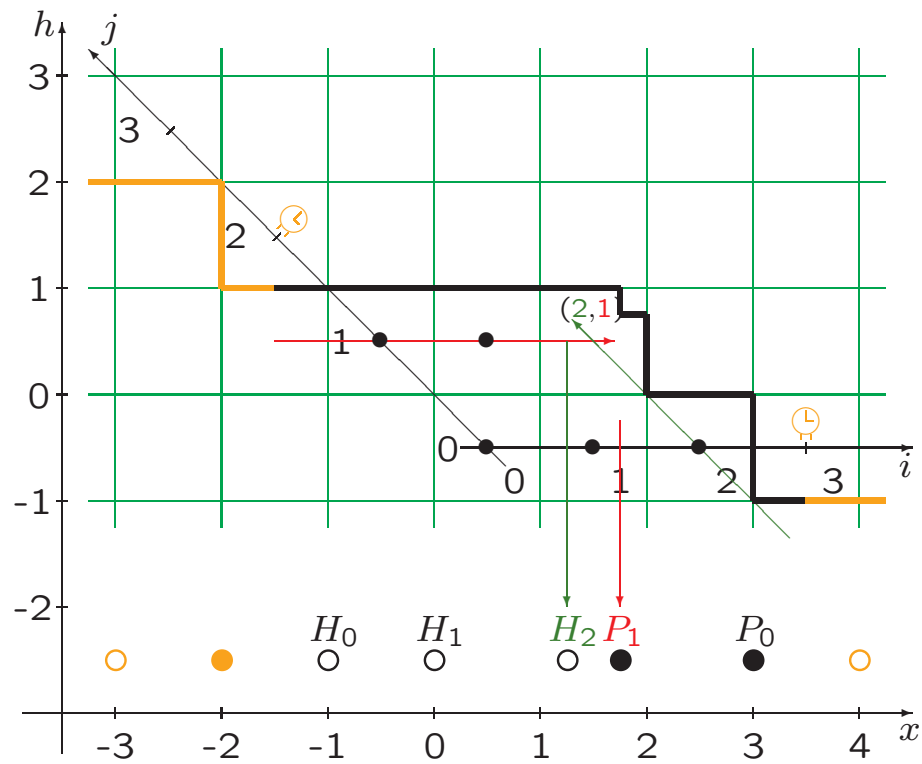




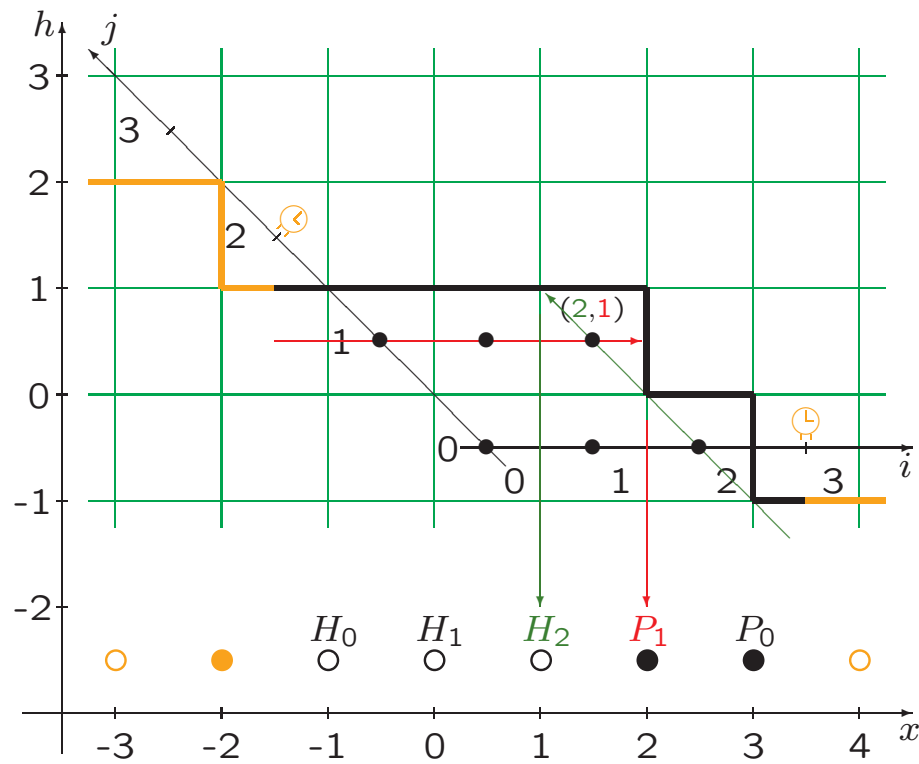




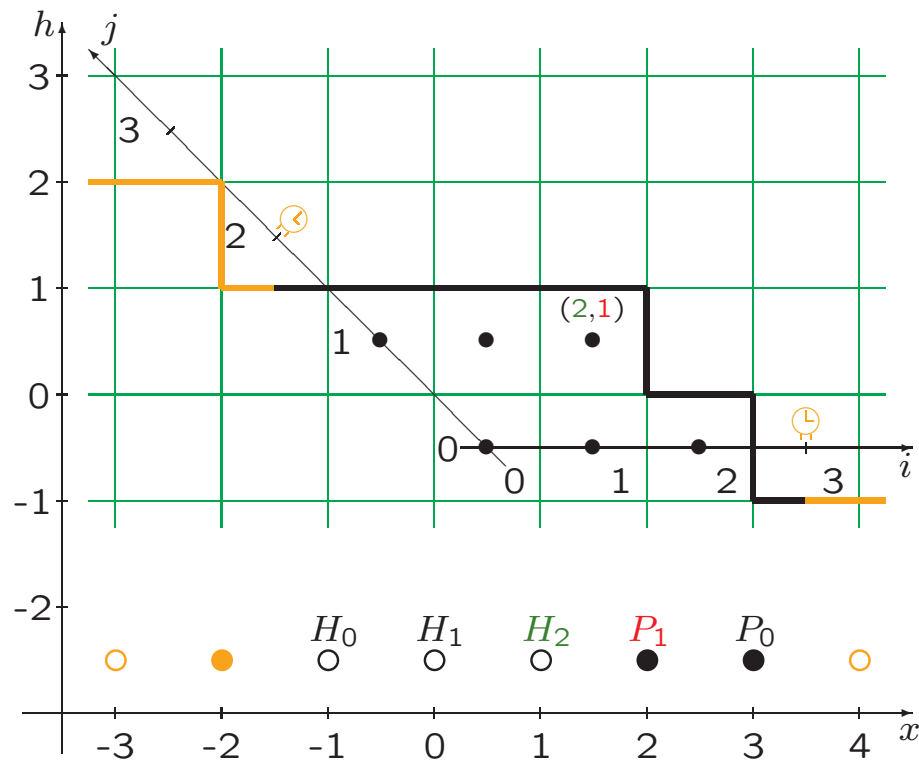
Occupation of $(i, j) = \text{jump of } P_j \text{ over } H_i$.
 Occupation of $(2, 1) = \text{jump of } P_1 \text{ over } H_2$.



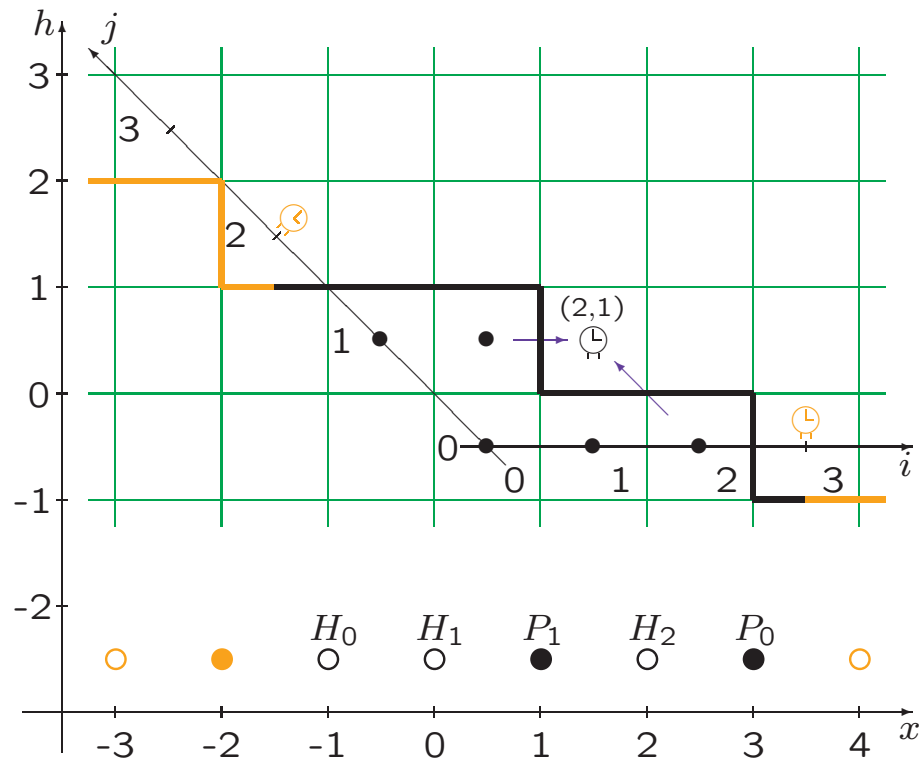
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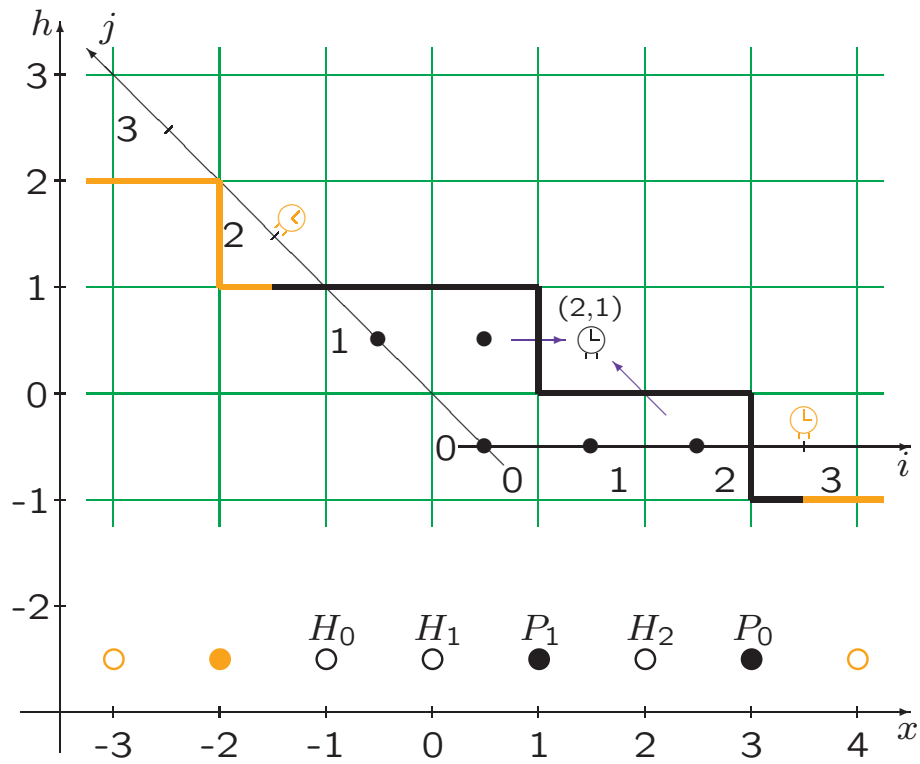


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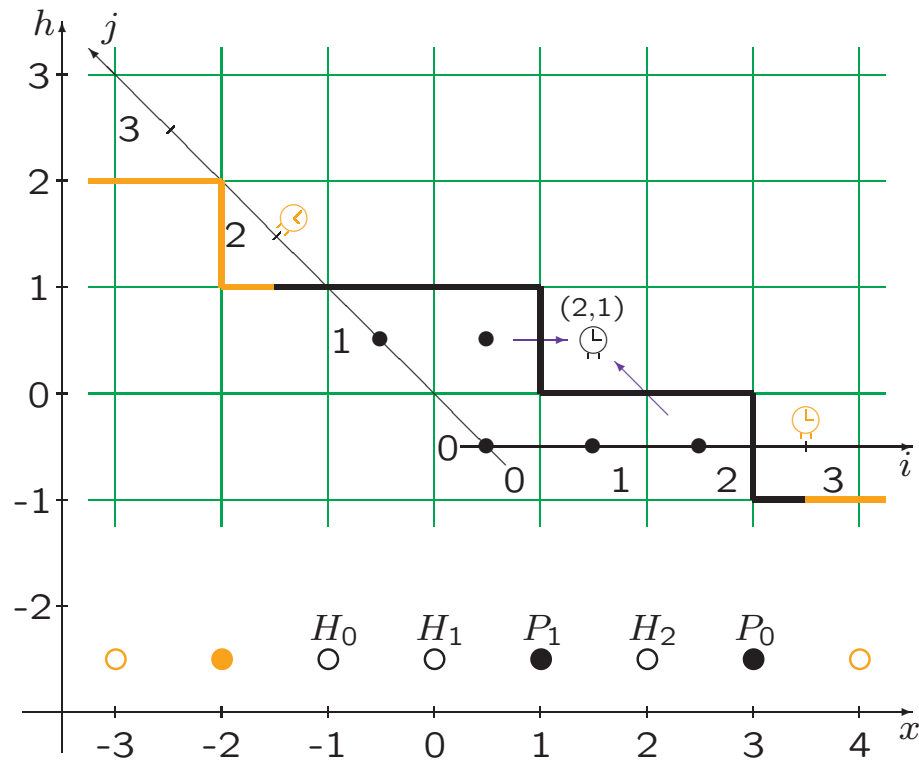
Occupation of $(i, j) = \text{jump of } P_j \text{ over } H_i$.
 Occupation of $(2, 1) = \text{jump of } P_1 \text{ over } H_2$.
 The time when this happens $=: G_{ij}$.





Burke's Theorem:

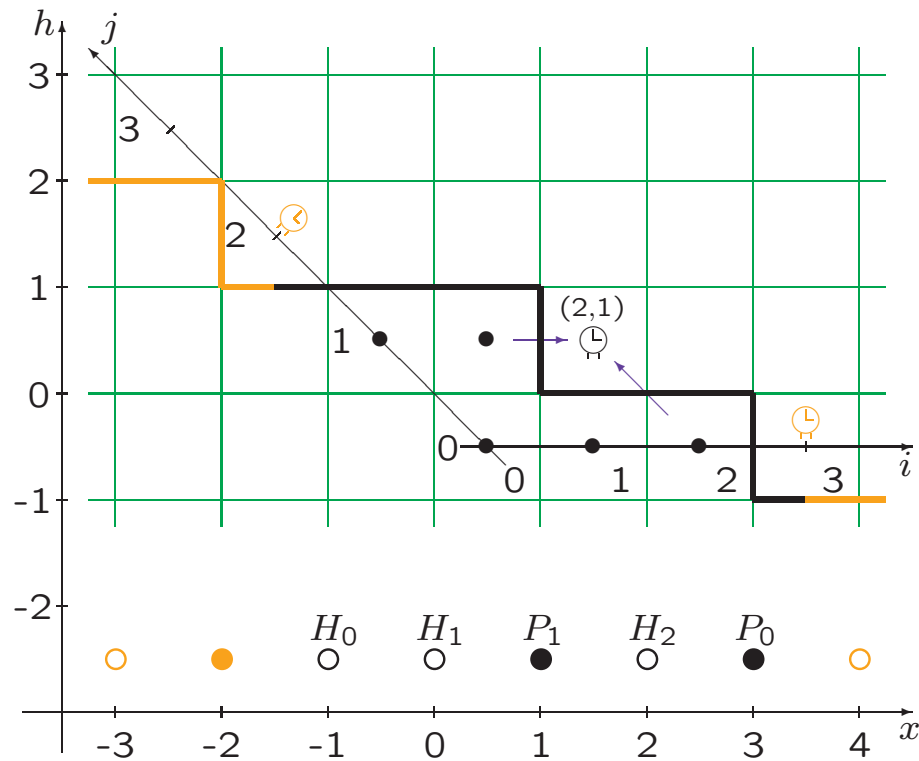
P_0 jumps according to a Poisson($1 - \rho$) process, governed by the right orange part



Burke's Theorem:

P_0 jumps according to a Poisson($1 - \rho$) process,
governed by the right orange part

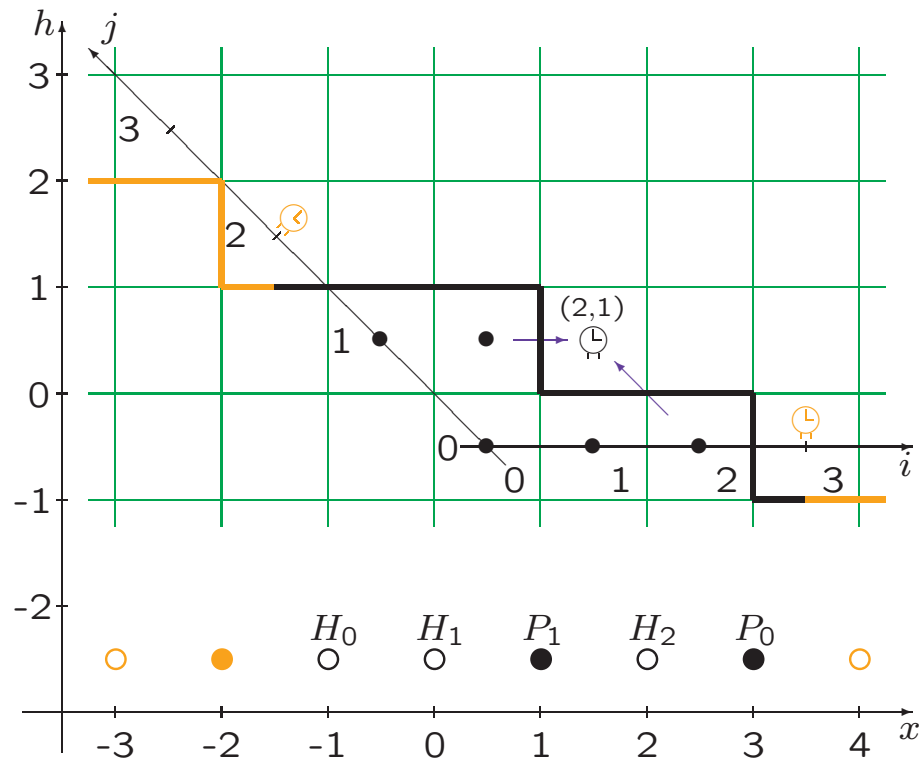
H_0 jumps according to a Poisson(ρ) process,
governed by the left orange part



Burke's Theorem:

P_0 jumps according to a Poisson($1 - \rho$) process, governed by the right orange part

H_0 jumps according to a Poisson(ρ) process, governed by the left orange part independently of the \oplus 's.



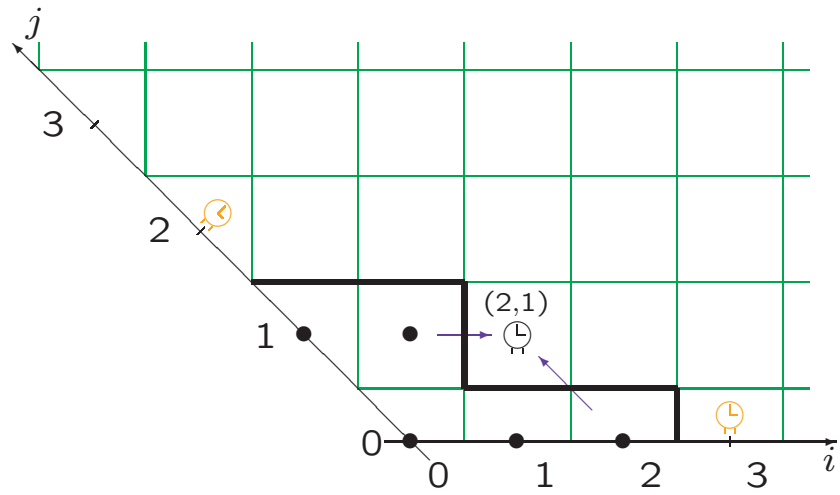
Burke's Theorem:

P_0 jumps according to a Poisson($1 - \rho$) process, governed by the right orange part

H_0 jumps according to a Poisson(ρ) process, governed by the left orange part independently of the τ 's.

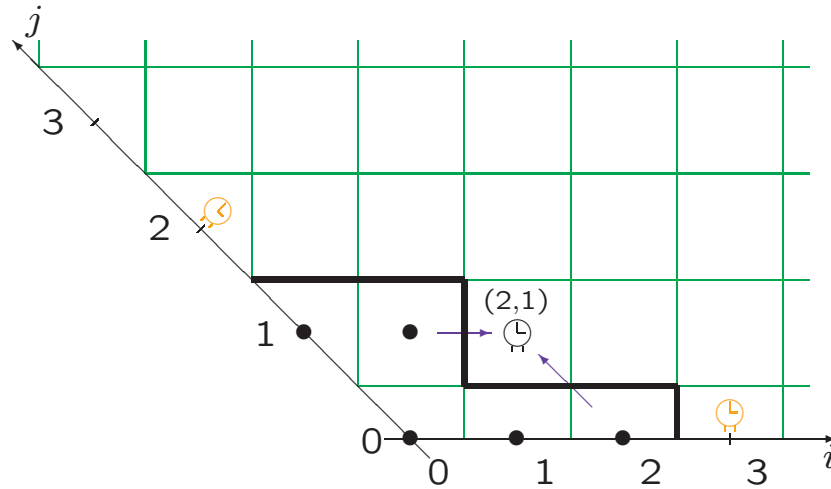
Therefore:

$$\left. \begin{aligned}
 \tau &\sim \text{Exponential}(1 - \rho) \\
 \tau &\sim \text{Exponential}(\rho) \\
 \tau &\sim \text{Exponential}(1)
 \end{aligned} \right\} \text{independently}$$



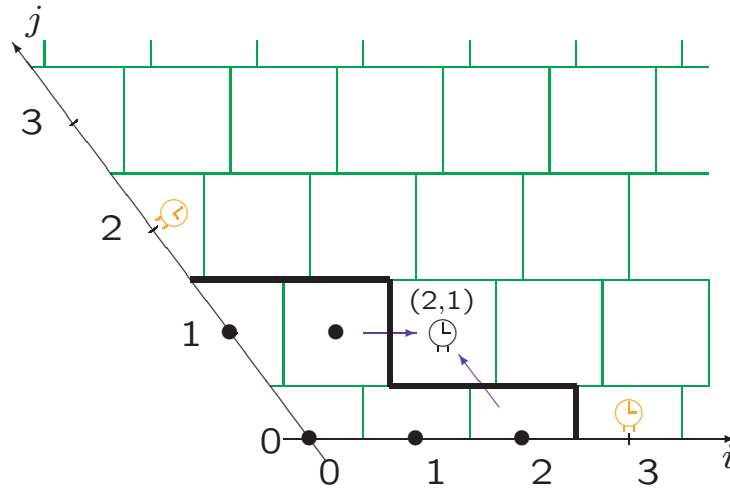
$$\left. \begin{array}{l}
 \text{⌚} \sim \text{Exponential}(1 - \rho) \\
 \text{⌚} \sim \text{Exponential}(\rho) \\
 \text{⌚} \sim \text{Exponential}(1)
 \end{array} \right\} \text{independently}$$

The last passage model



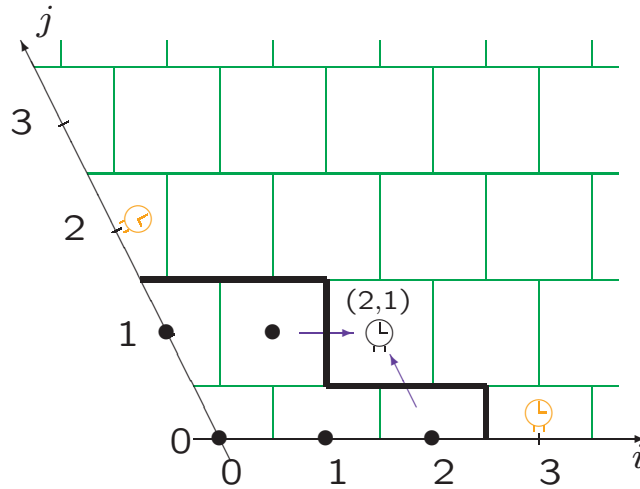
$$\left. \begin{array}{l} \text{⌚} \sim \text{Exponential}(1 - \varrho) \\ \text{⌚} \sim \text{Exponential}(\varrho) \\ \text{⌚} \sim \text{Exponential}(1) \end{array} \right\} \text{independently}$$

The last passage model



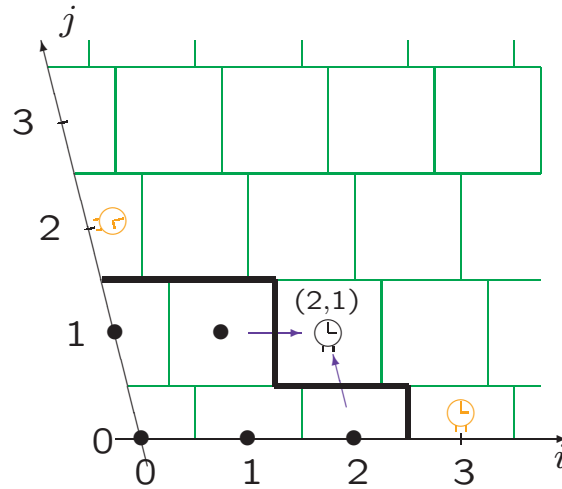
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The last passage model



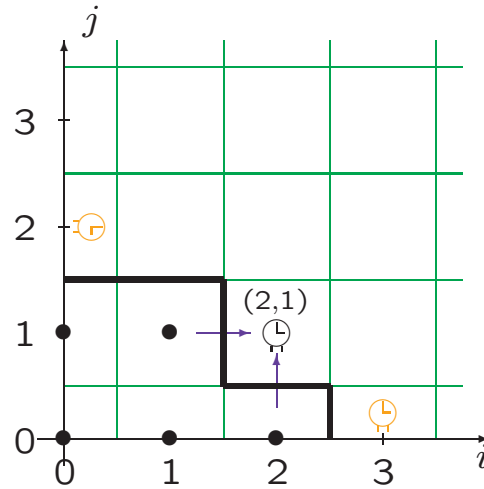
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 \end{array} \right\} \text{independently}$$

The last passage model



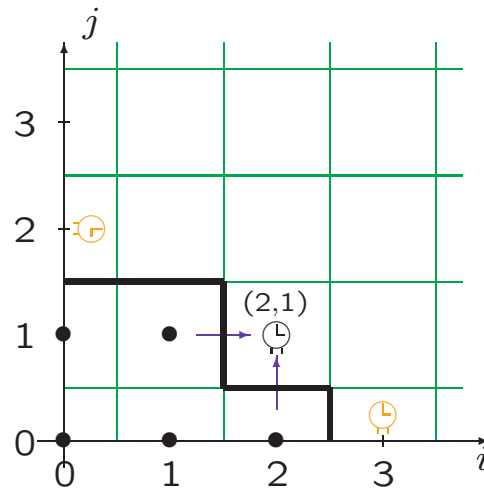
$$\left. \begin{array}{l} \text{clock} \sim \text{Exponential}(1 - \varrho) \\ \text{clock} \sim \text{Exponential}(\varrho) \\ \text{clock} \sim \text{Exponential}(1) \end{array} \right\} \text{independently}$$

The last passage model



$$\left. \begin{array}{l} \text{⌚} \sim \text{Exponential}(1 - \rho) \\ \text{⌚} \sim \text{Exponential}(\rho) \\ \text{⌚} \sim \text{Exponential}(1) \end{array} \right\} \text{independently}$$

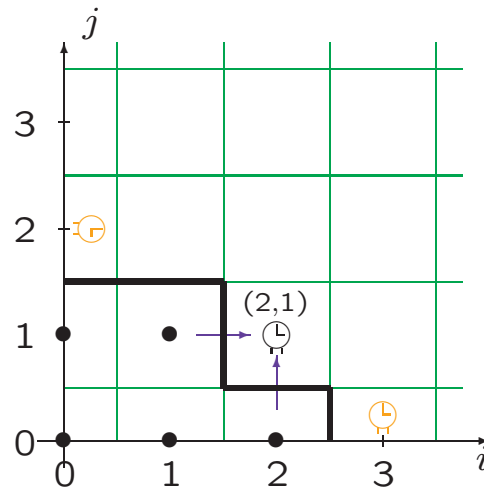
The last passage model



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 \end{array} \right\} \text{independently}$$

⌚ starts ticking when its west neighbor becomes occupied

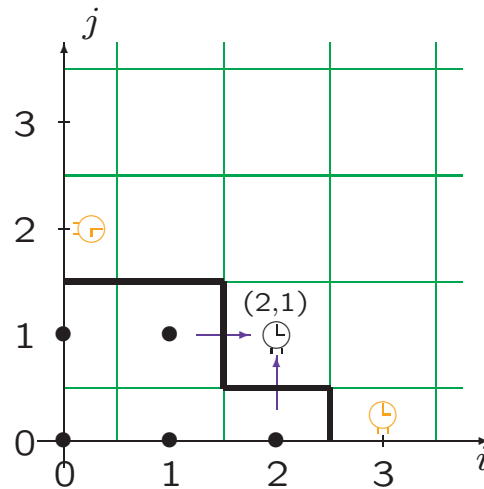
The last passage model



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- ⌚ starts ticking when its west neighbor becomes occupied
- ⌚ starts ticking when its south neighbor becomes occupied

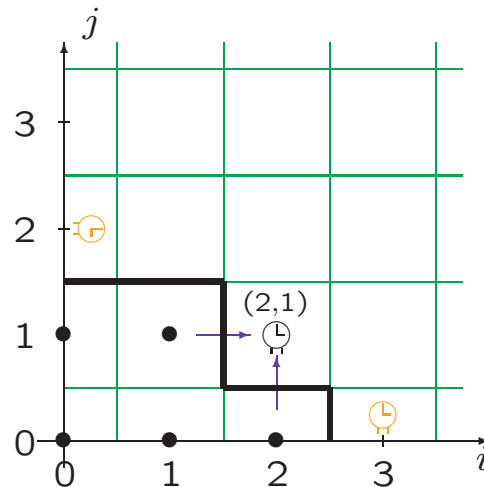
The last passage model



$$\left. \begin{array}{l}
 \text{⌚} \sim \text{Exponential}(1 - \rho) \\
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 \end{array} \right\} \text{independently}$$

- ⌚ starts ticking when its west neighbor becomes occupied
- ⌚ starts ticking when its south neighbor becomes occupied
- ⌚ starts ticking when both its west and south neighbors become occupied

The last passage model

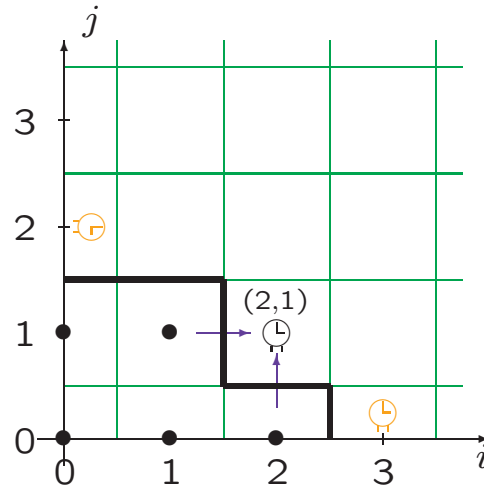


M. Prähofer and H. Spohn 2002

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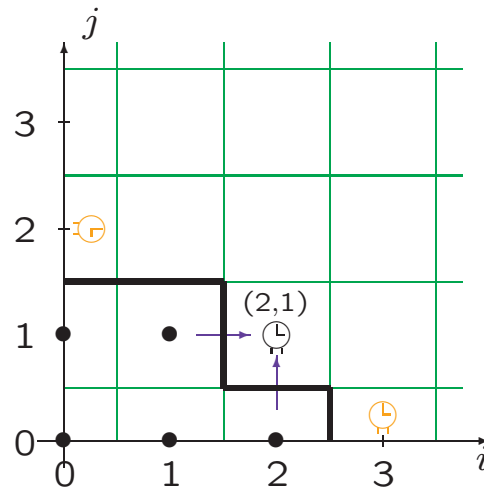
⌚ starts ticking when its west neighbor becomes occupied

⌚ starts ticking when its south neighbor becomes occupied

⌚ starts ticking when both its west and south neighbors become occupied

G_{ij} = the occupation time of (i, j)

The last passage model



M. Prähofer and H. Spohn 2002

$$\left. \begin{array}{l} \ominus \sim \text{Exponential}(1 - \rho) \\ \oplus \sim \text{Exponential}(\rho) \\ \ominus \sim \text{Exponential}(1) \end{array} \right\} \text{independently}$$

\ominus starts ticking when its west neighbor becomes occupied

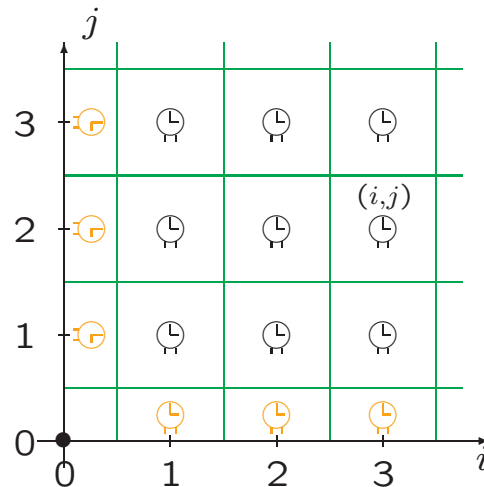
\oplus starts ticking when its south neighbor becomes occupied

\ominus starts ticking when both its west and south neighbors become occupied

G_{ij} = the occupation time of (i, j)

G_{ij} = the maximum weight collected by a north-east path from $(0, 0)$ to (i, j) .

The last passage model



M. Prähofer and H. Spohn 2002

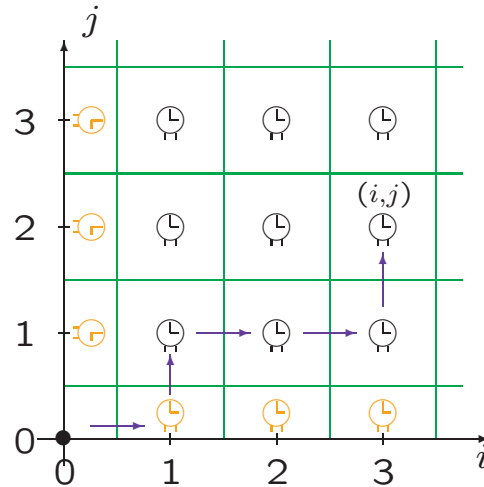
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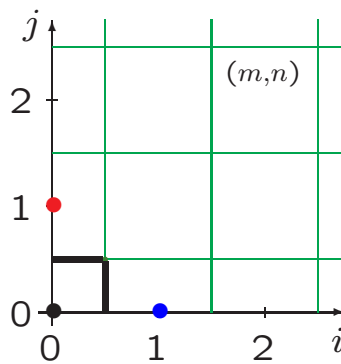
⌚ starts ticking when its south neighbor becomes occupied

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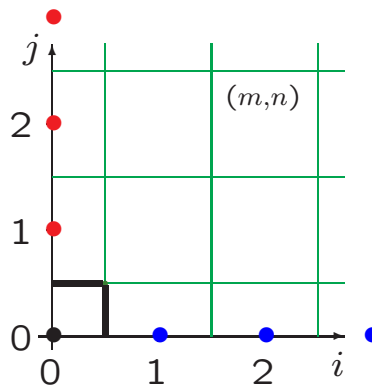
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

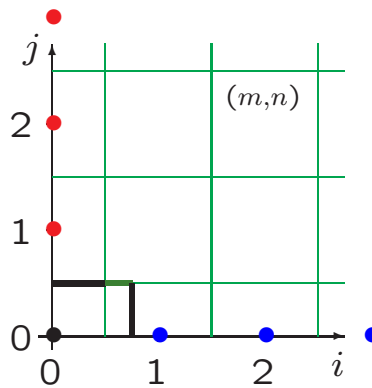
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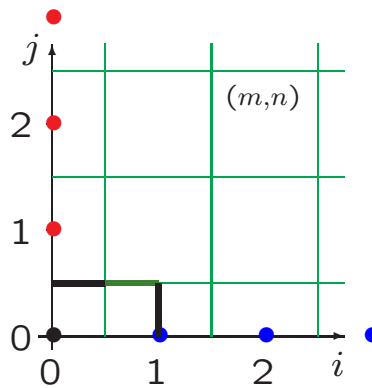
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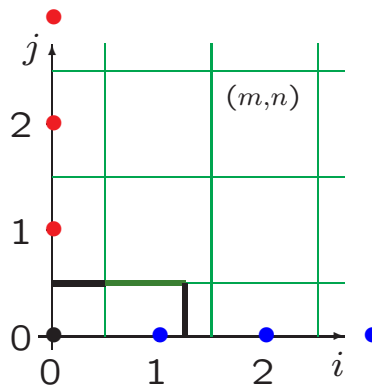
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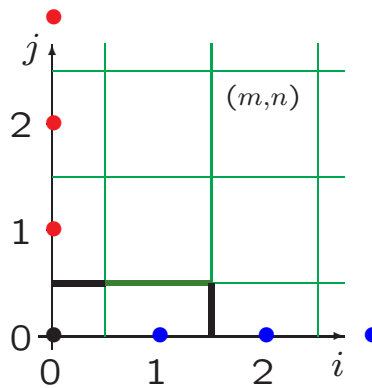
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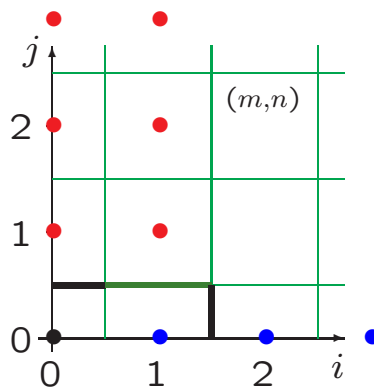
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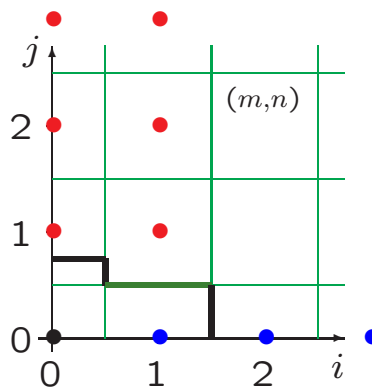
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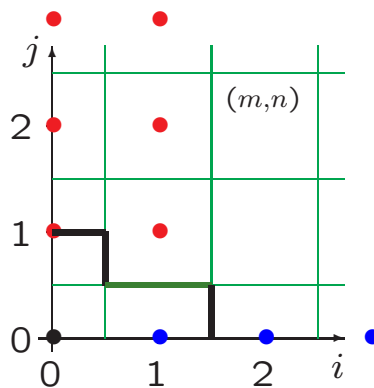
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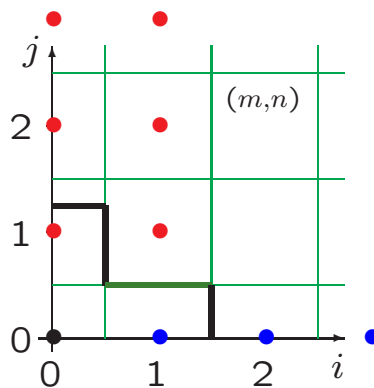
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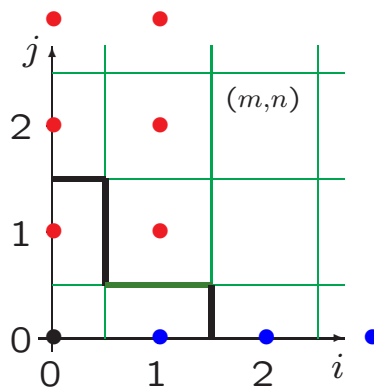
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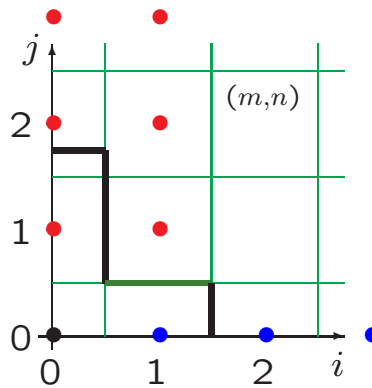
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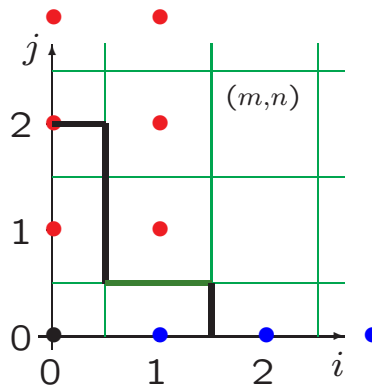
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

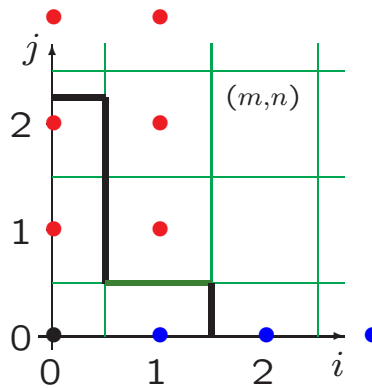
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

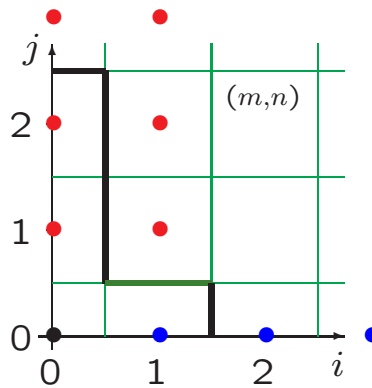
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

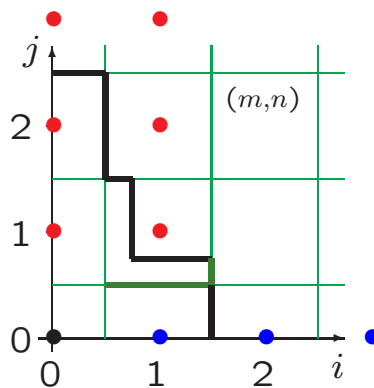
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

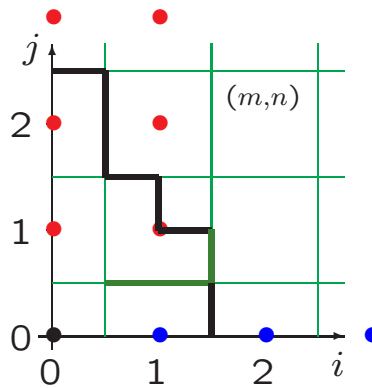
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

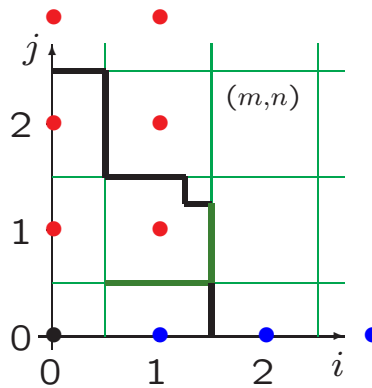
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

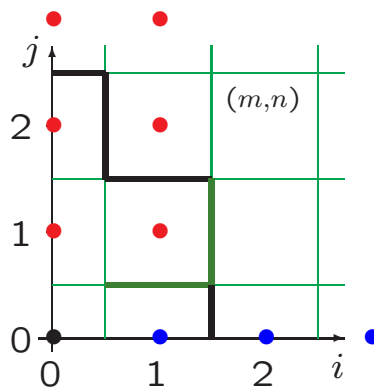
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

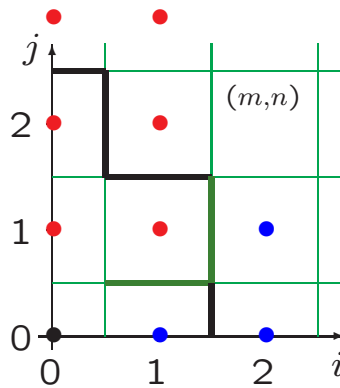
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

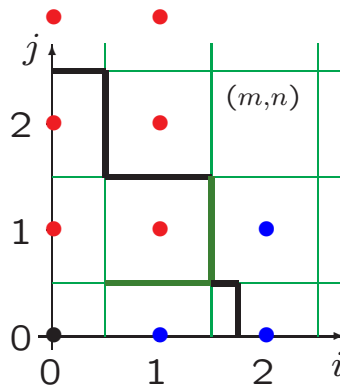
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

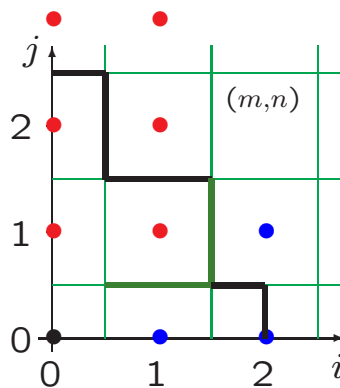
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

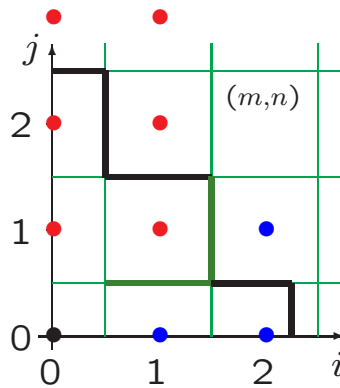
The competition interface



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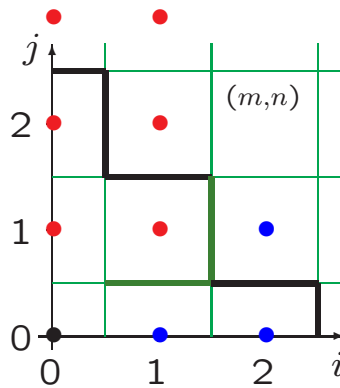
The competition interface



Ferrari, Martin, Pimentel (2005)

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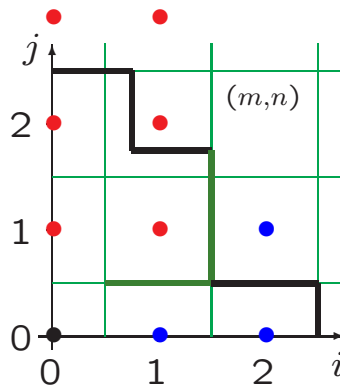
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

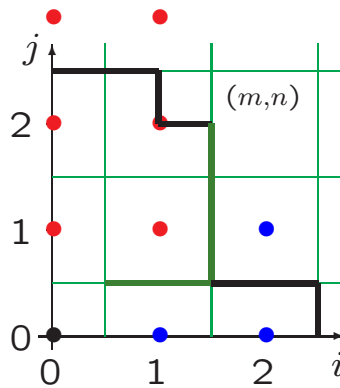
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

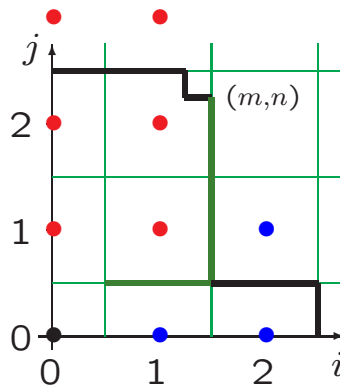
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

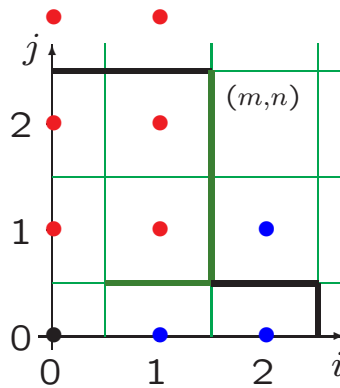
The competition interface



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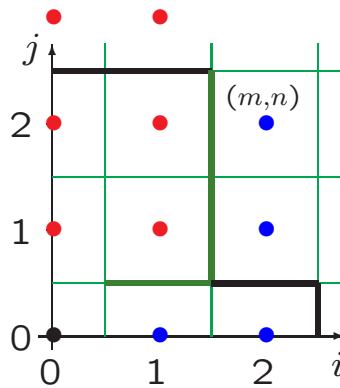
The competition interface



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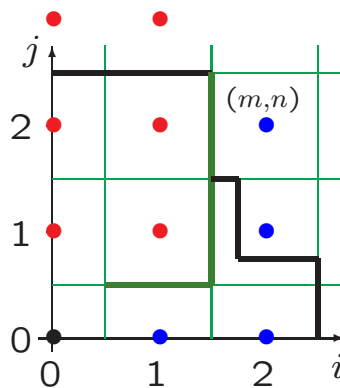
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

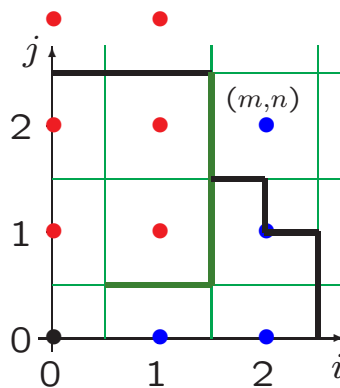
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

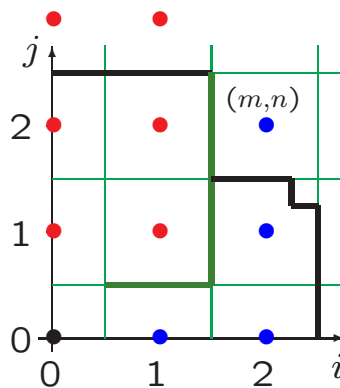
The competition interface



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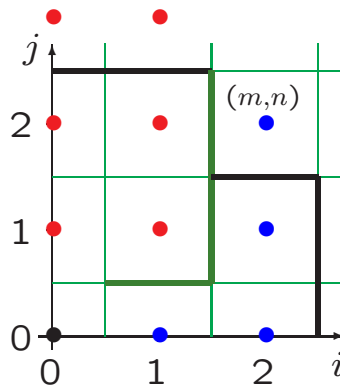
The competition interface



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Which squares are infected via $(1,0)$ and via $(0,1)$?

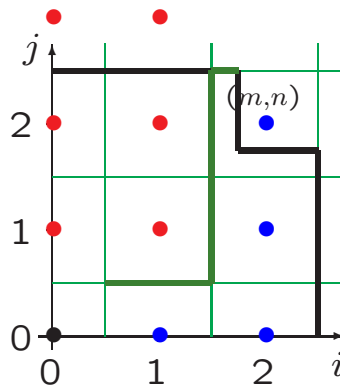
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

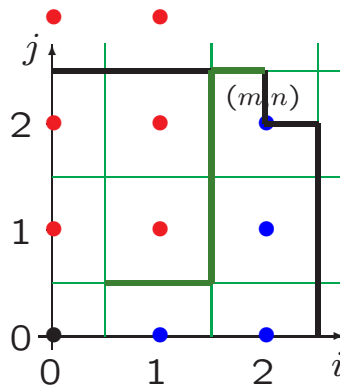
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

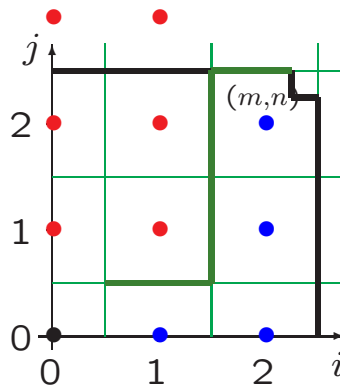
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1, 0)$ and via $(0, 1)$?

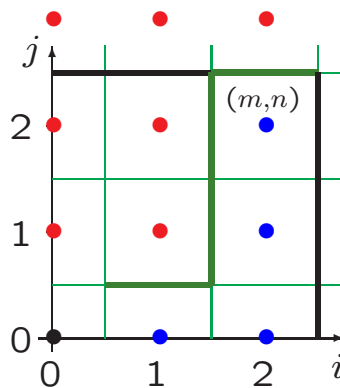
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

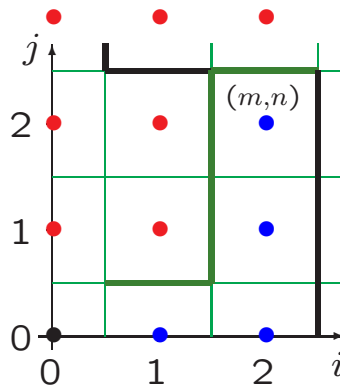
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

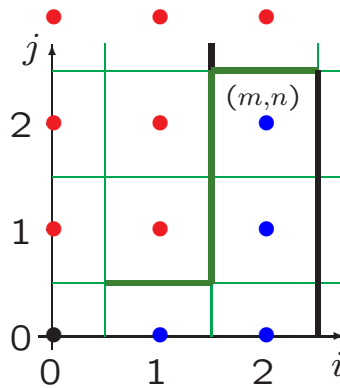
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

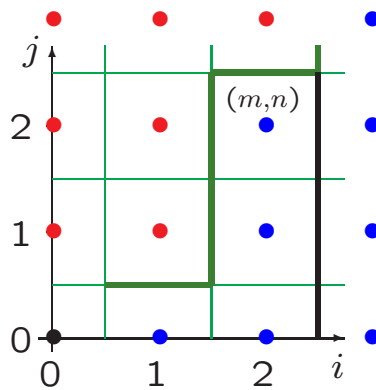
The competition interface



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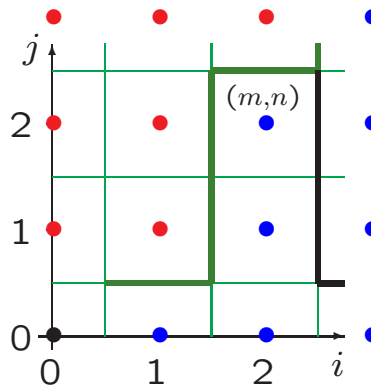
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

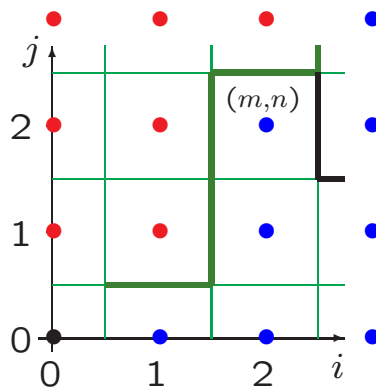
The competition interface



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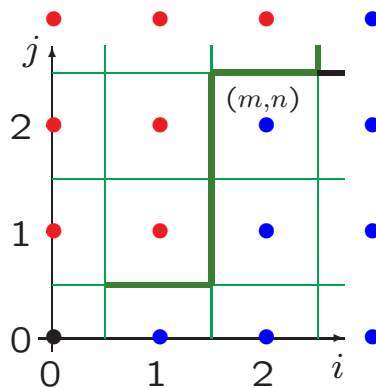
The competition interface



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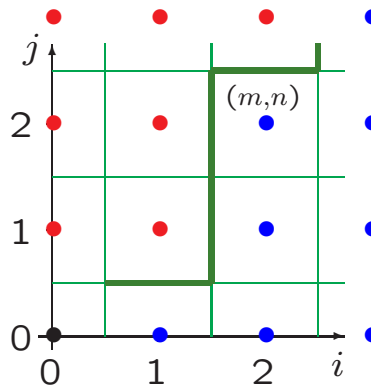
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

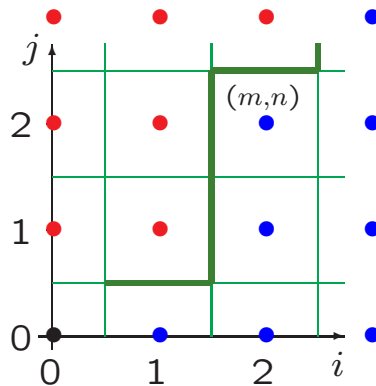
The competition interface



Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

The competition interface

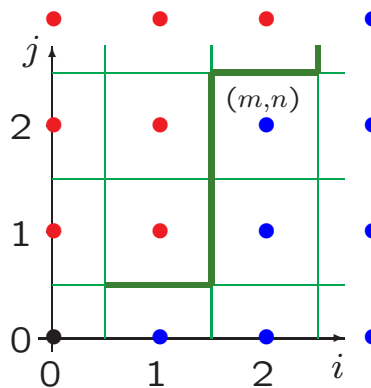


Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

The competition interface follows the same rules as the *second class particle* of simple exclusion.

The competition interface



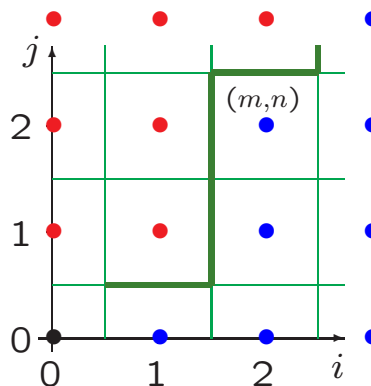
Ferrari, Martin, Pimentel (2005)

Which squares are infected via $(1,0)$ and via $(0,1)$?

The competition interface follows the same rules as the *second class particle* of simple exclusion.

If it passes left of (m,n) , then G_{mn} is not sensitive to decreasing the \ominus weights on the j -axis. If it passes below (m,n) , then G_{mn} is not sensitive to decreasing the \ominus weights on the i -axis.

The competition interface



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Thank you.