The Garden-Hose Model

Harry Buhrman, Serge Fehr,
Christian Schaffner, Florian Speelman

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garden-hose model

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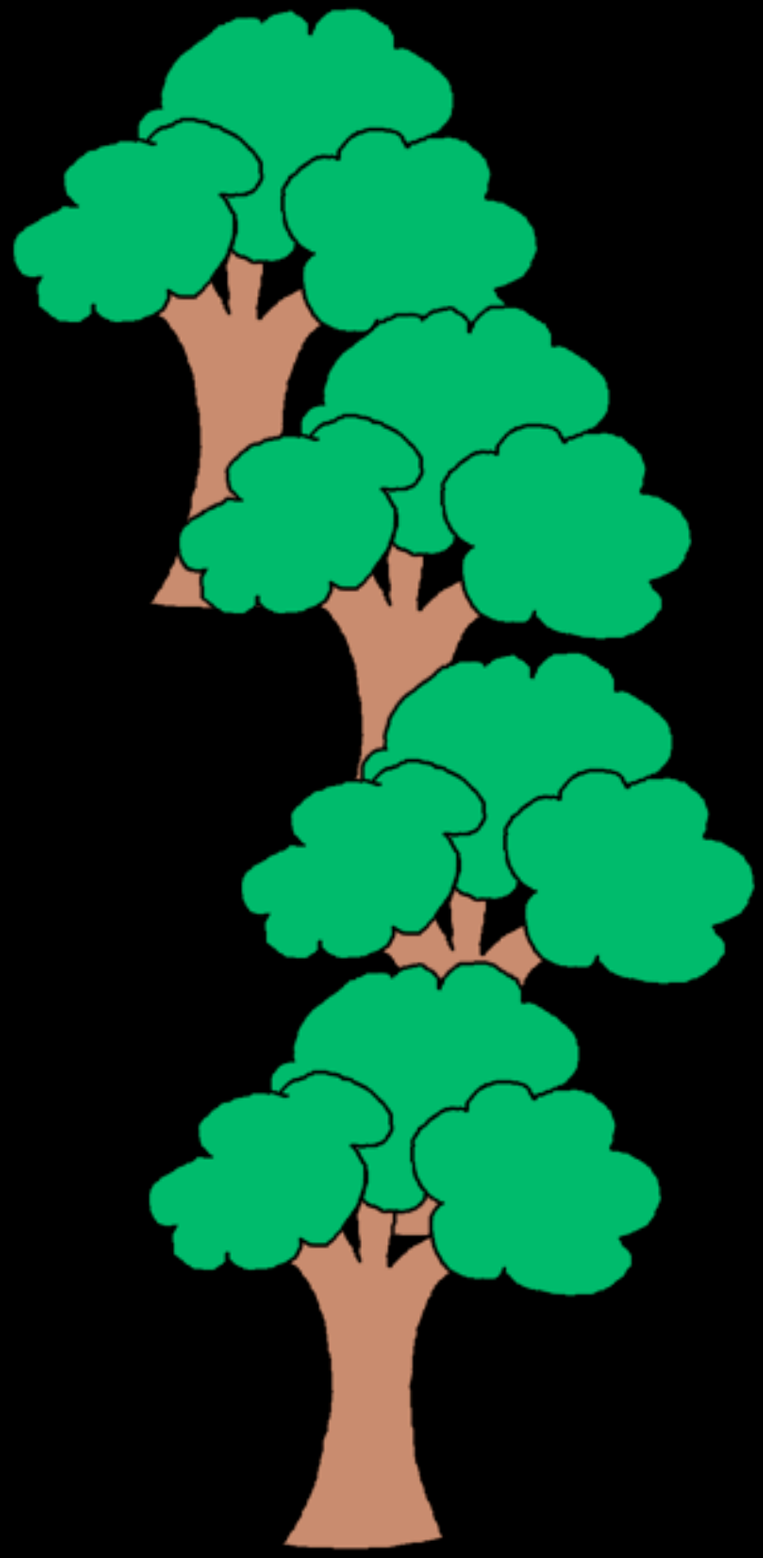
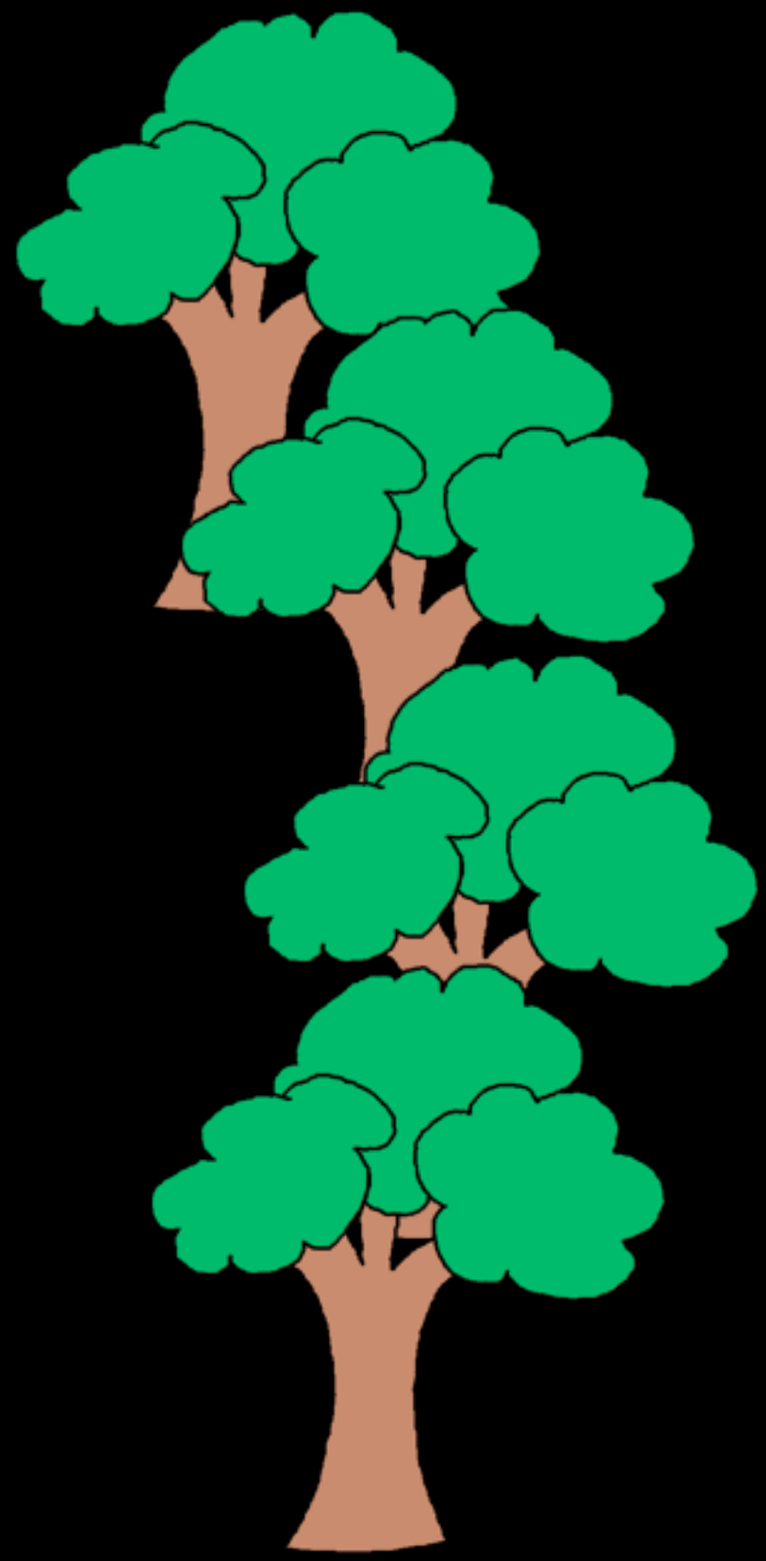


$x \in \{0,1\}^n$

$y \in \{0,1\}^n$



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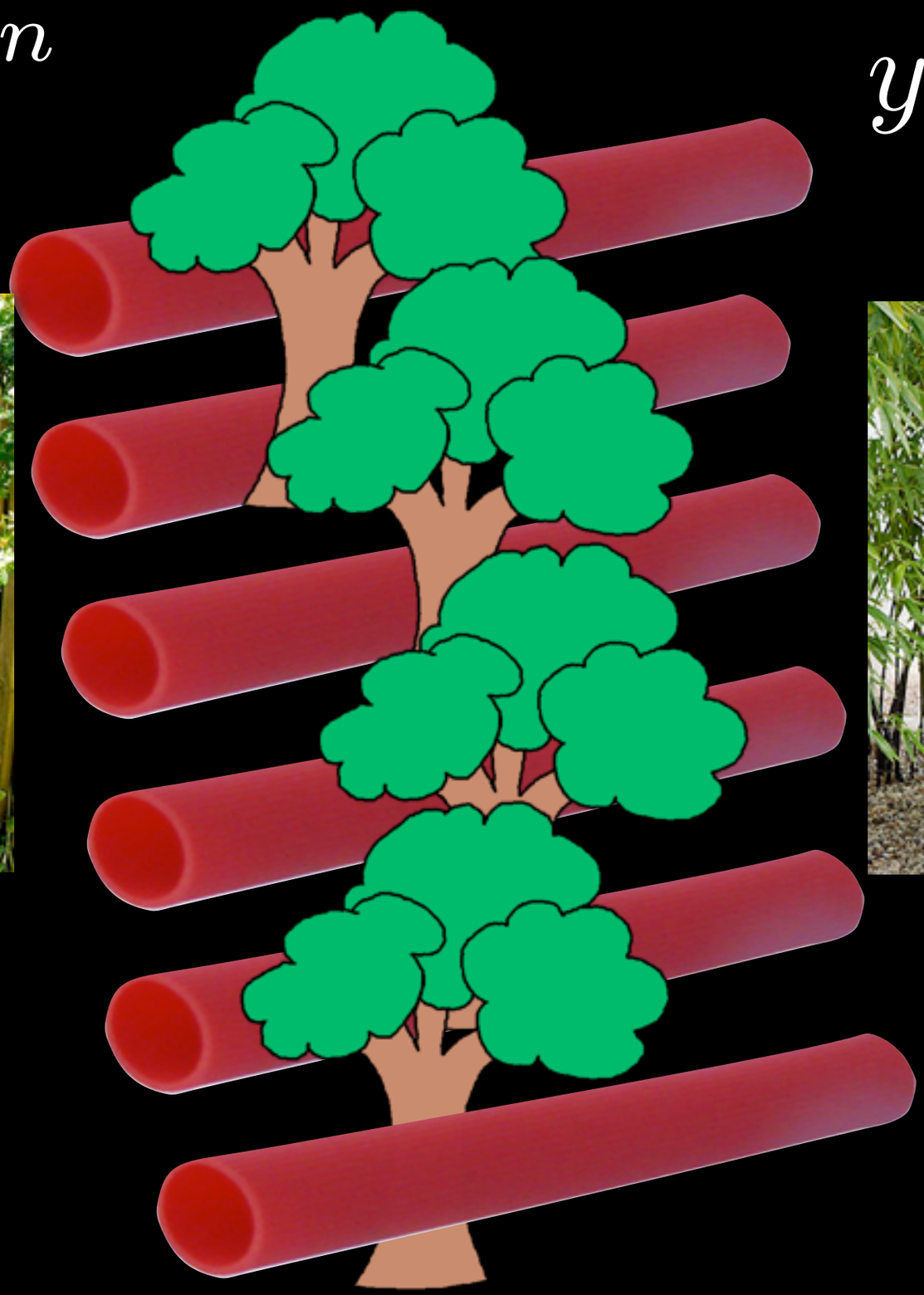

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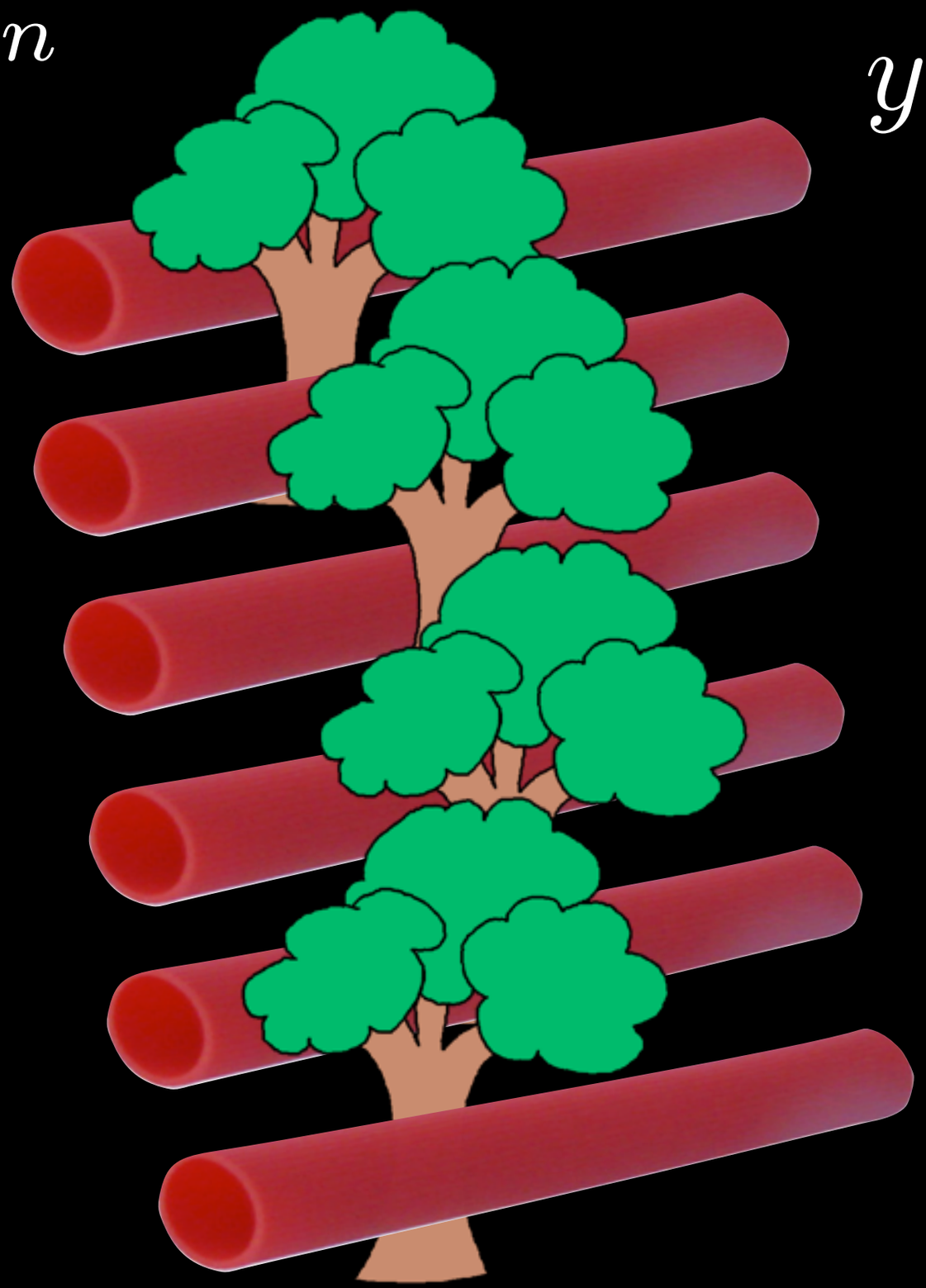

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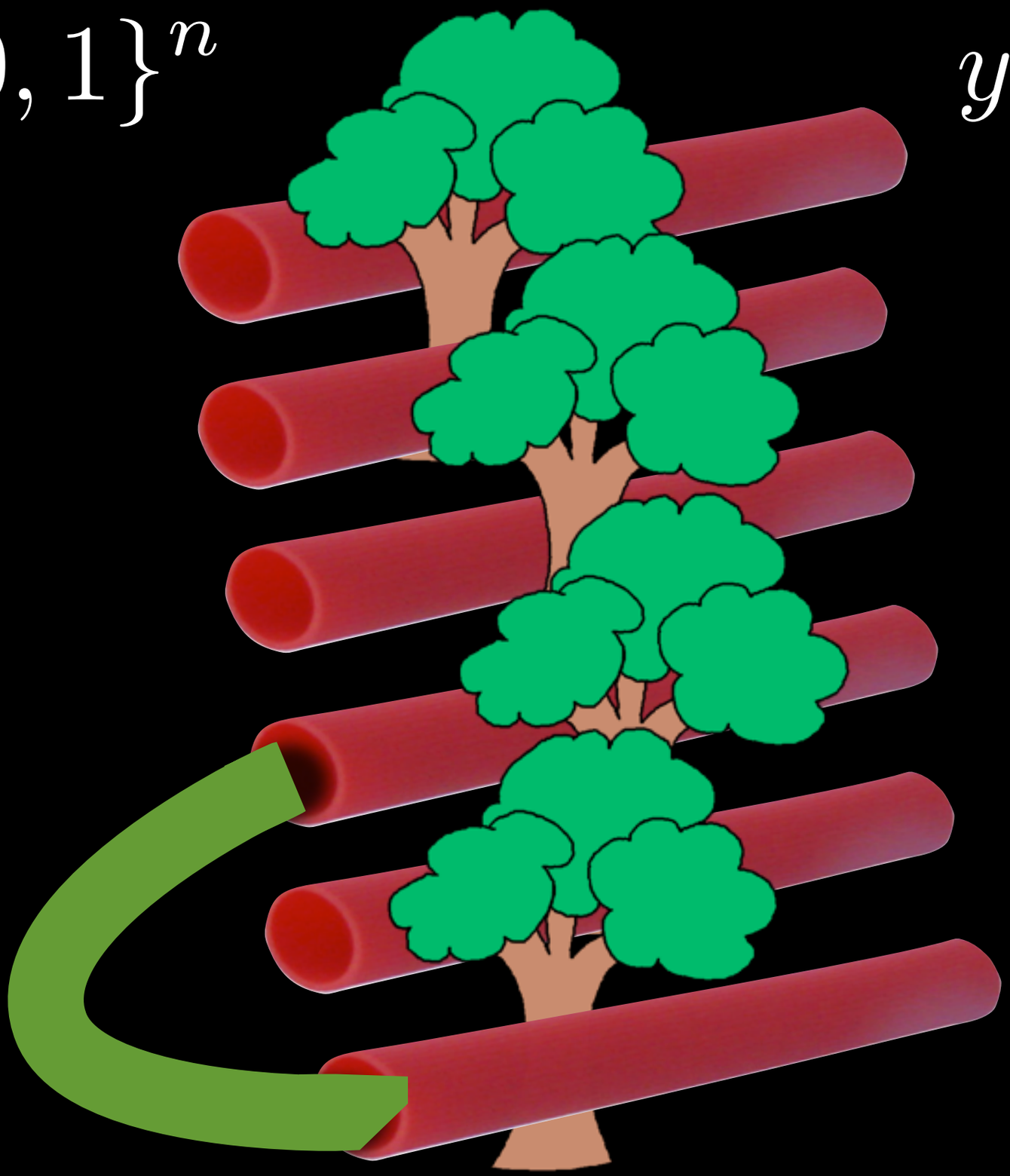

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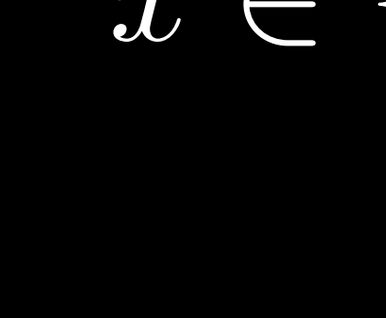

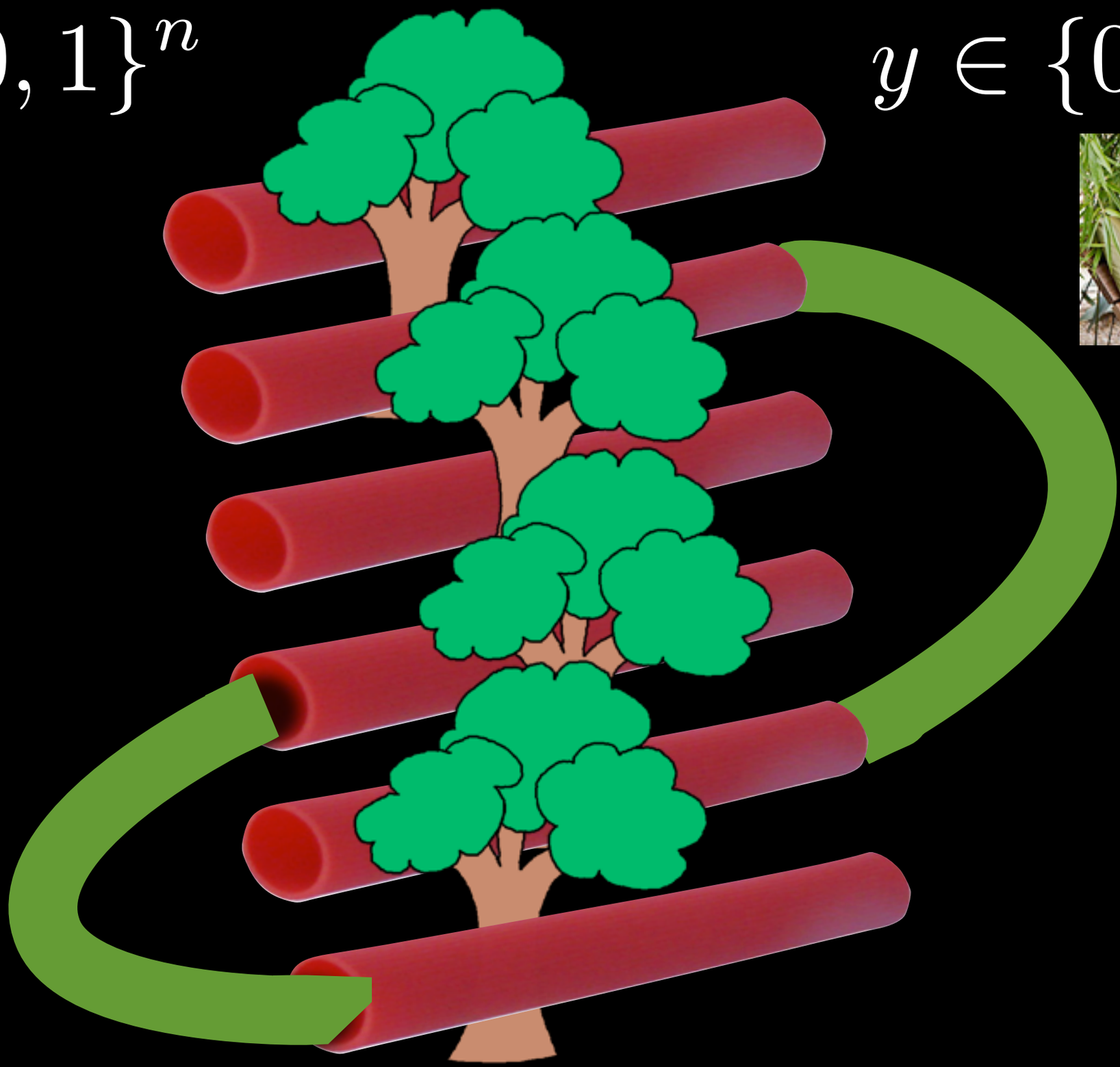

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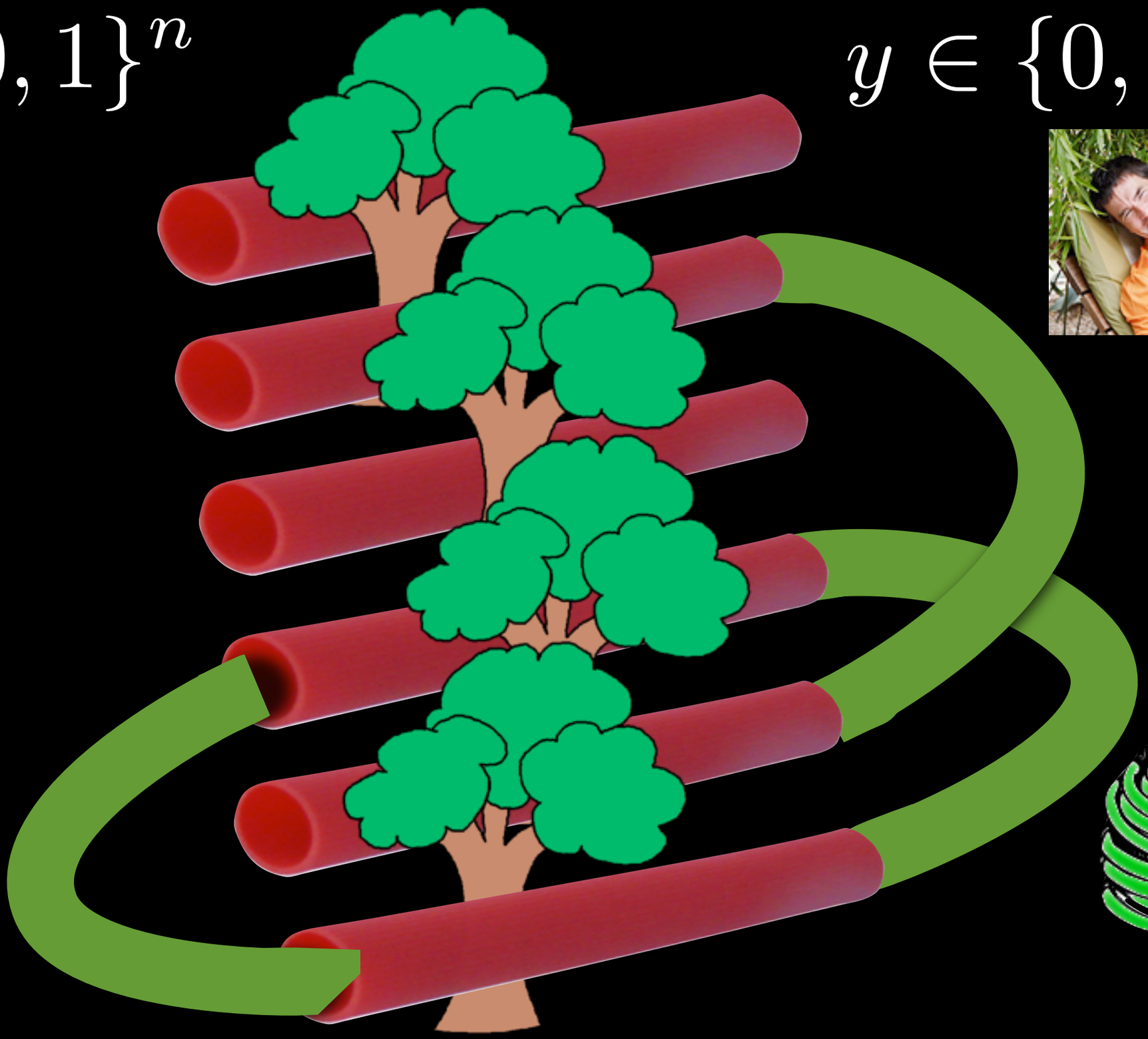

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$f(x,y) = 0$

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$f(x,y) = 0$

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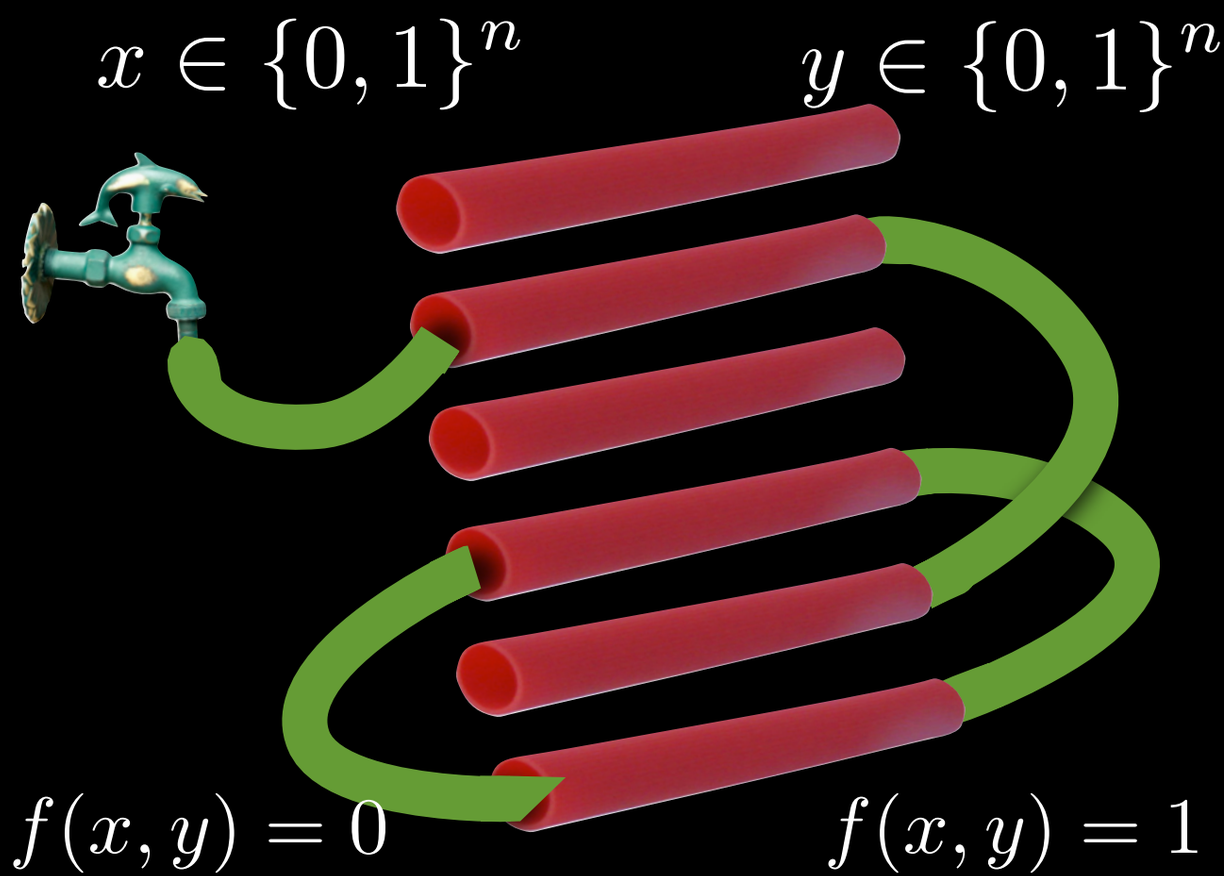
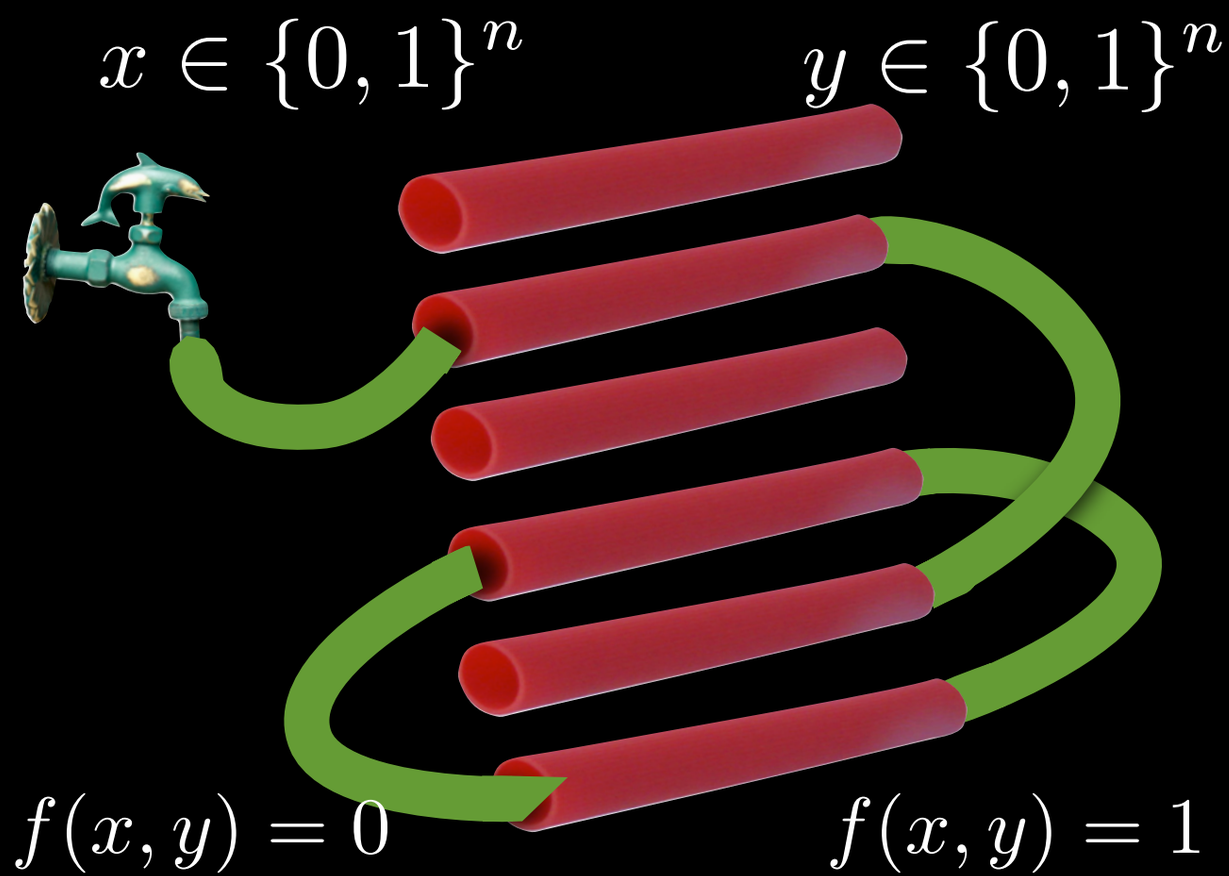
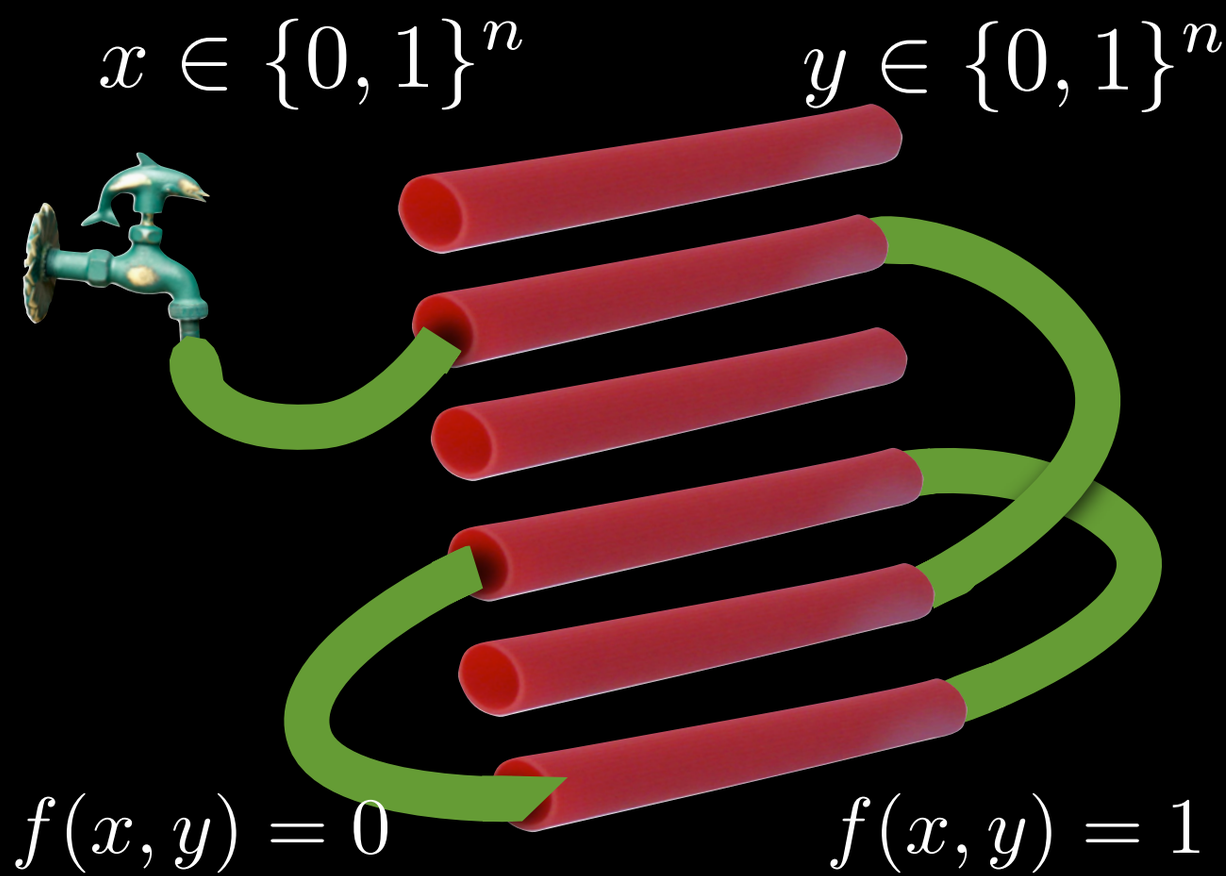


Computing a Boolean Function in the Garden-Hose Model



Computing a Boolean Function in the Garden-Hose Model

how many pipes are required?



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how many pipes are required?

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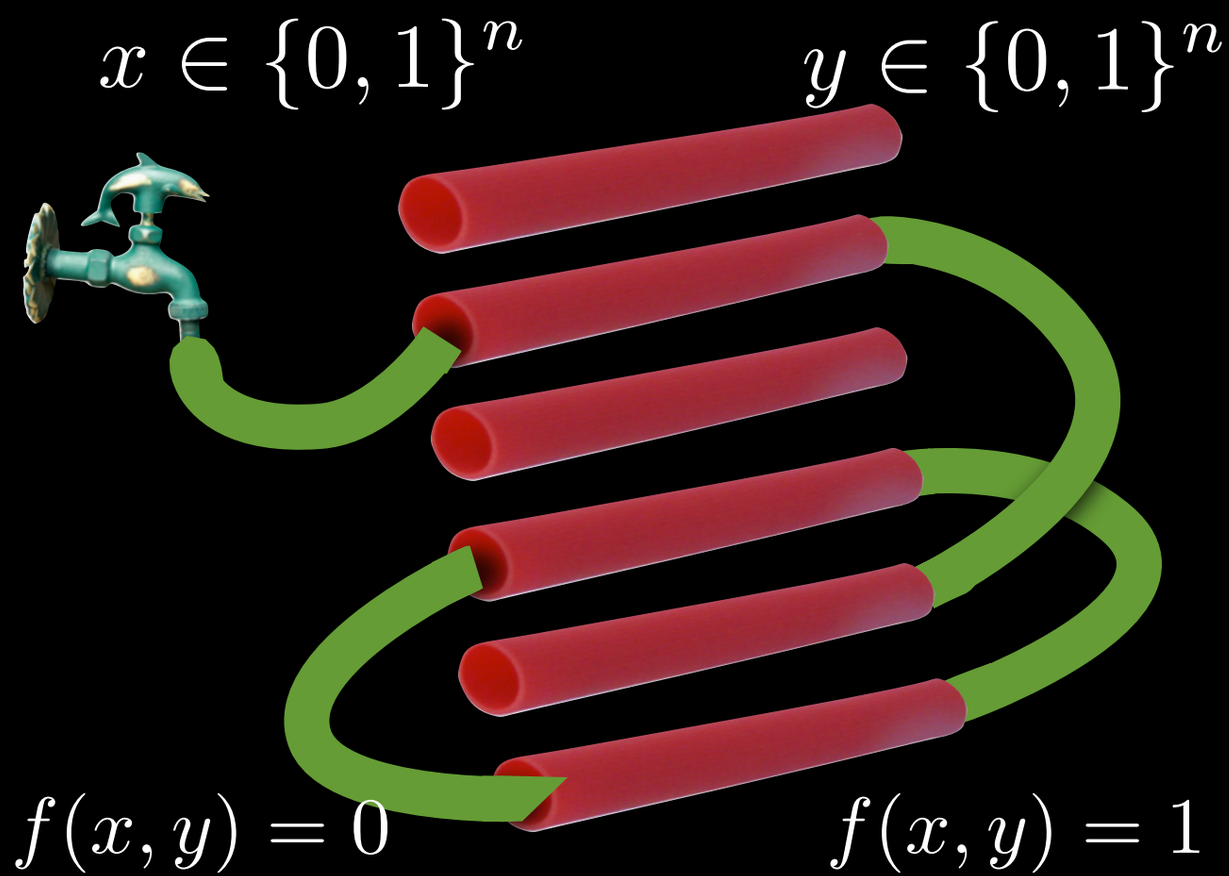
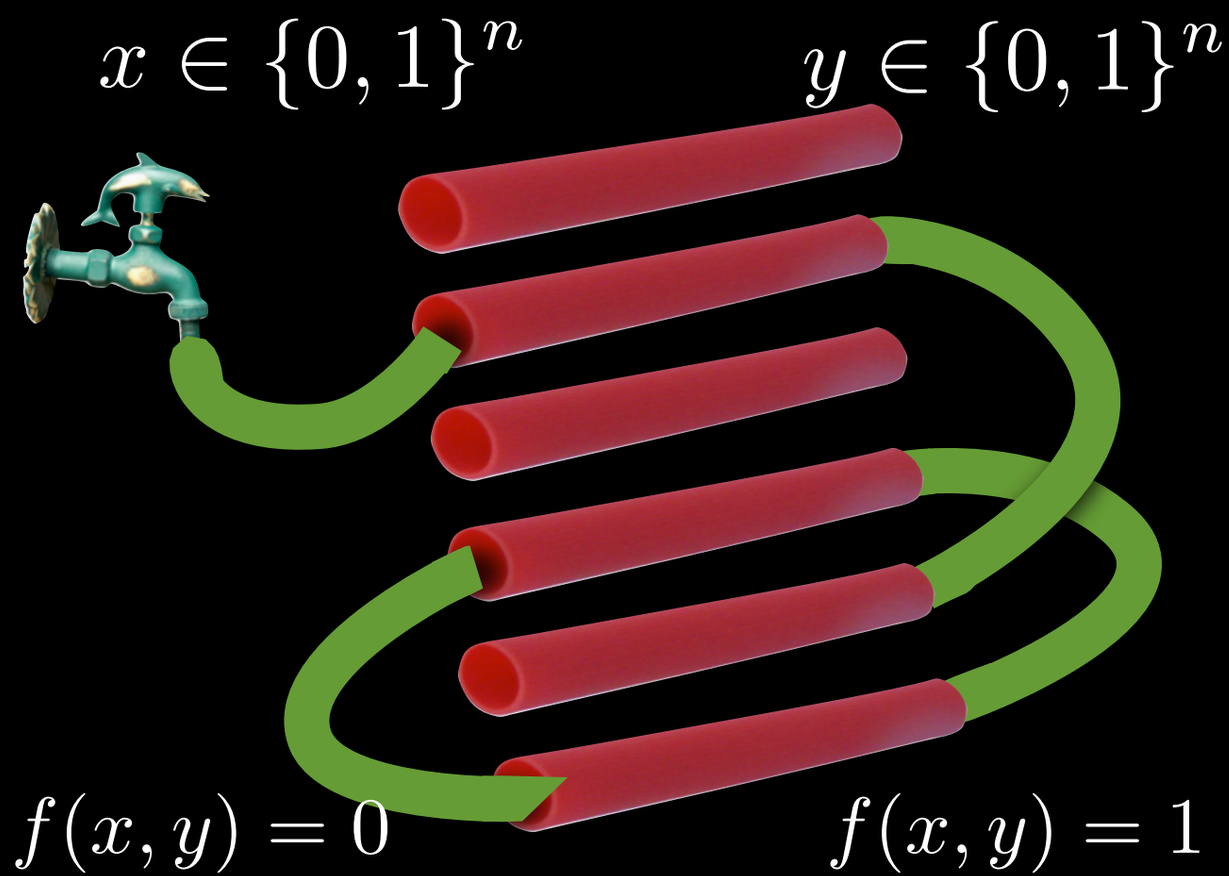


Computing a Boolean Function in the Garden-Hose Model

how many pipes are required?

- upper bounds (constructions)
- lower bounds (counting arguments)

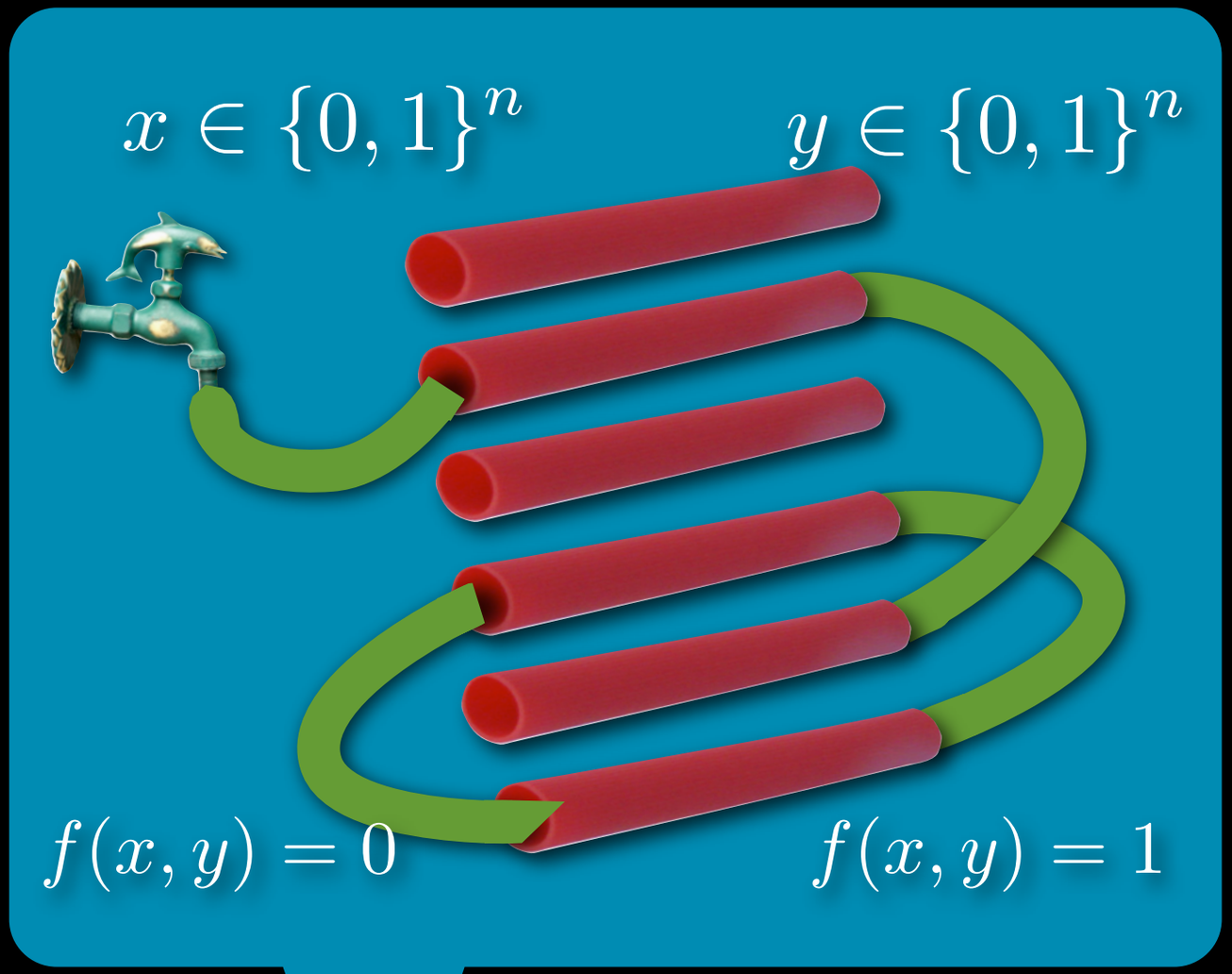


Computing a Boolean Function in the Garden-Hose Model

how many pipes are required?

- upper bounds (constructions)
- lower bounds (counting arguments)

good-night puzzle: equality function



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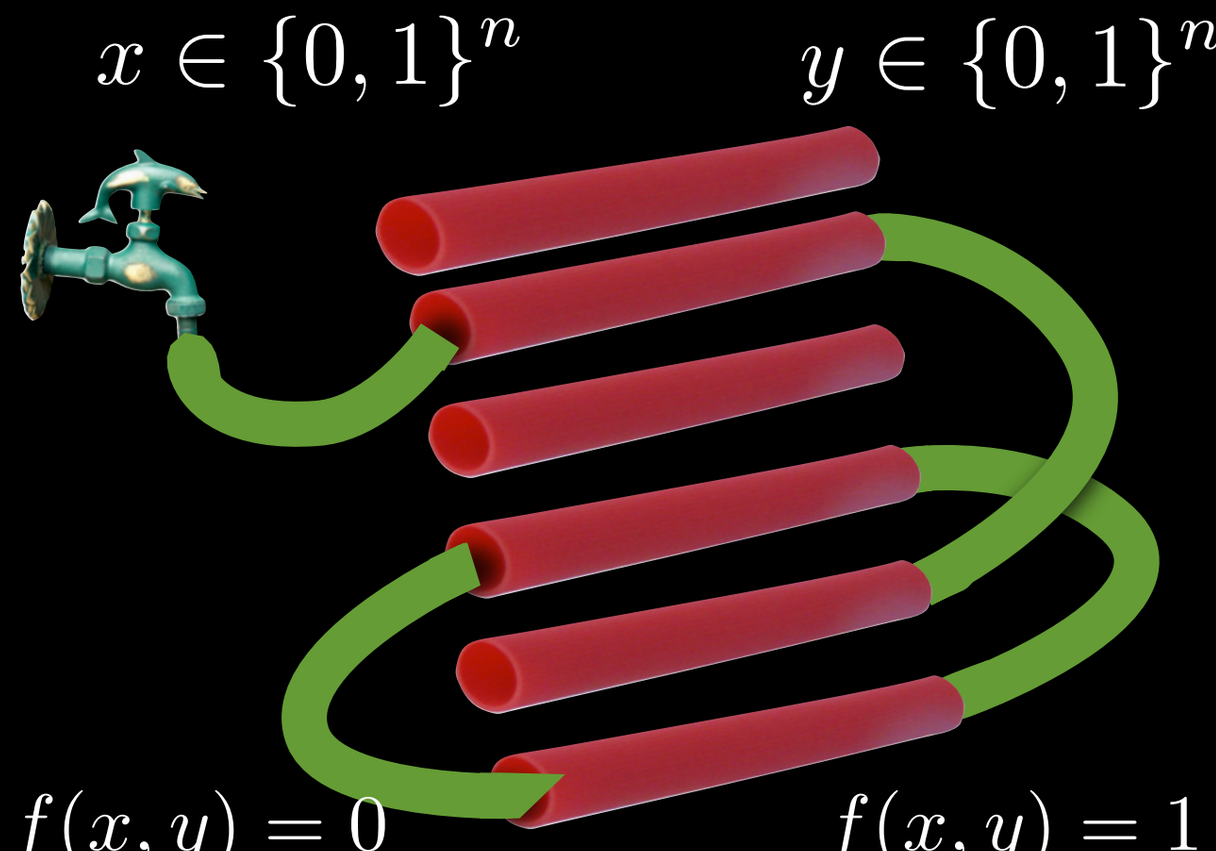
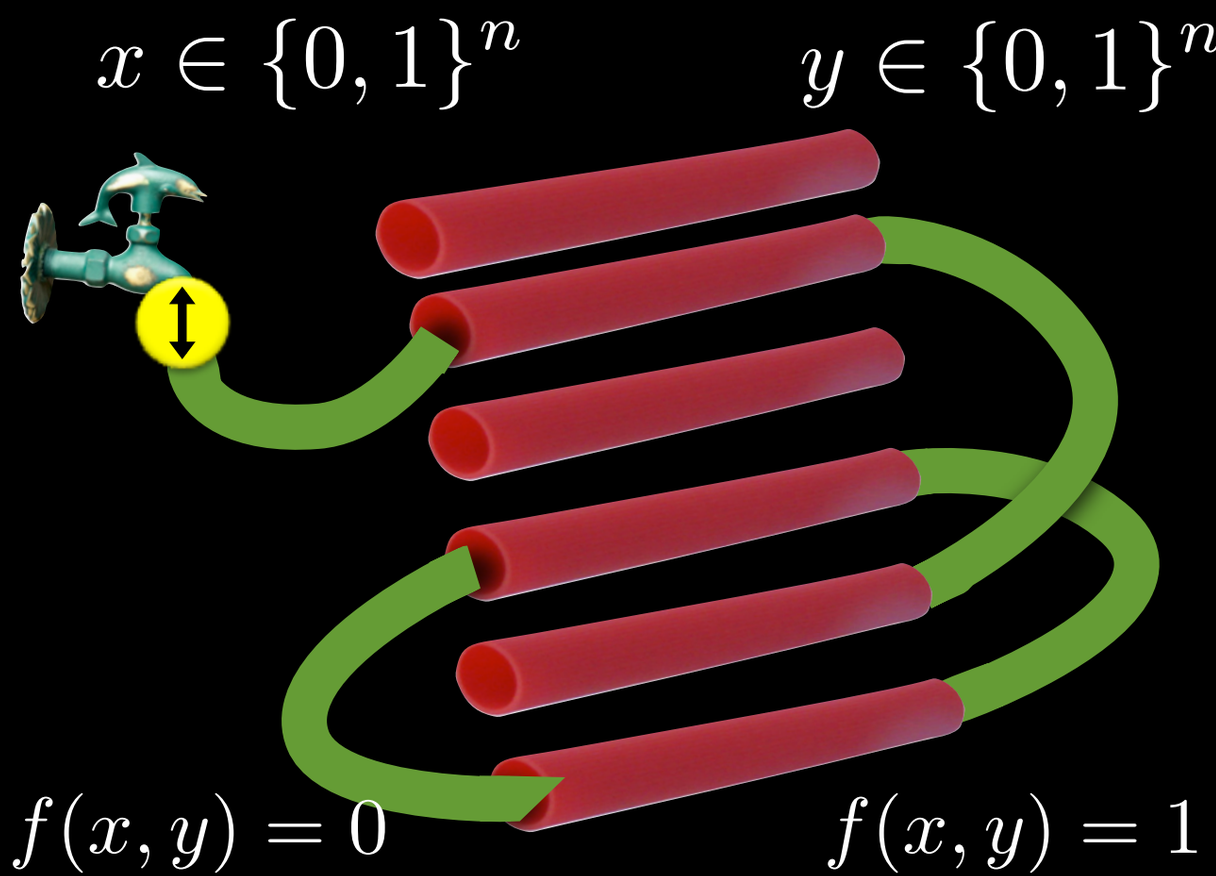


Link to Quantum Crypto

- Garden-Hose strategy

$\Downarrow \quad \Uparrow ?$

- attack on a simple quantum protocol for position verification



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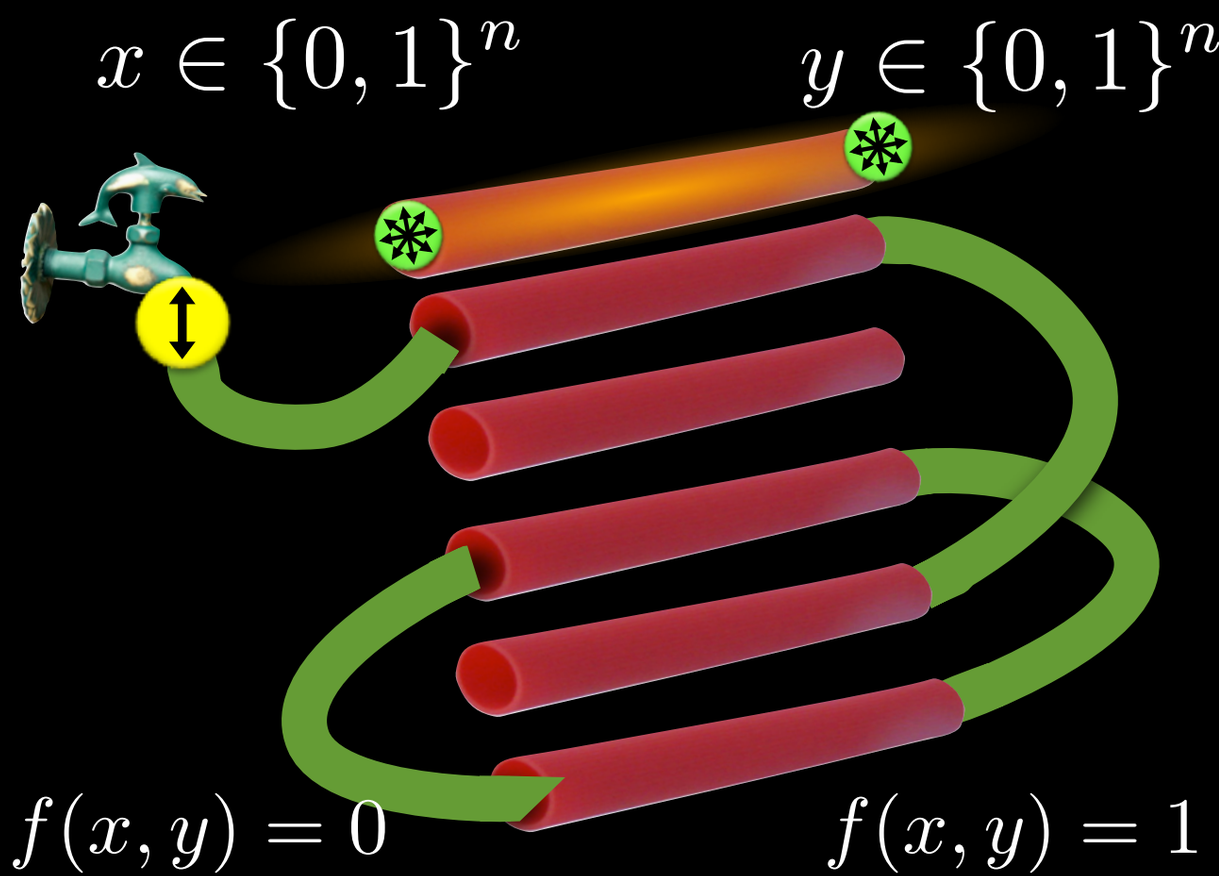

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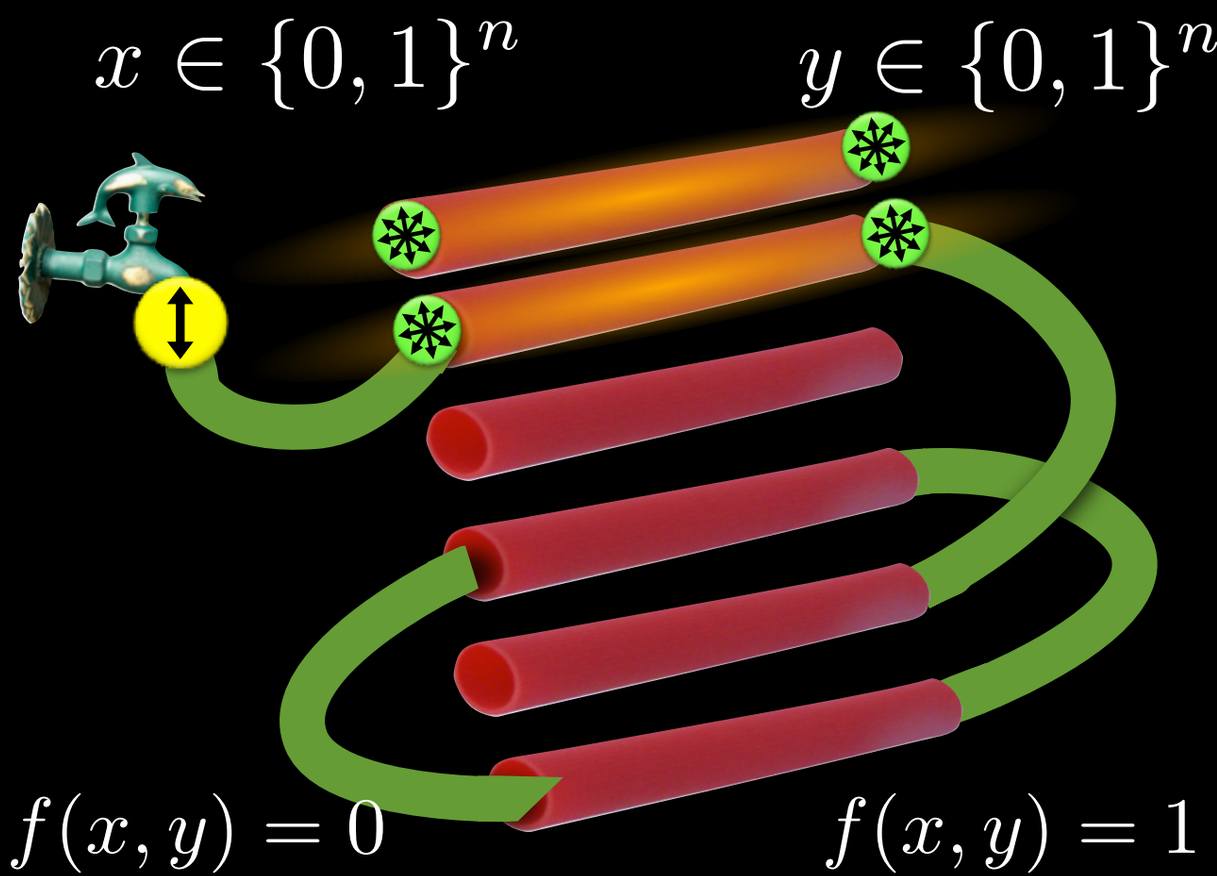

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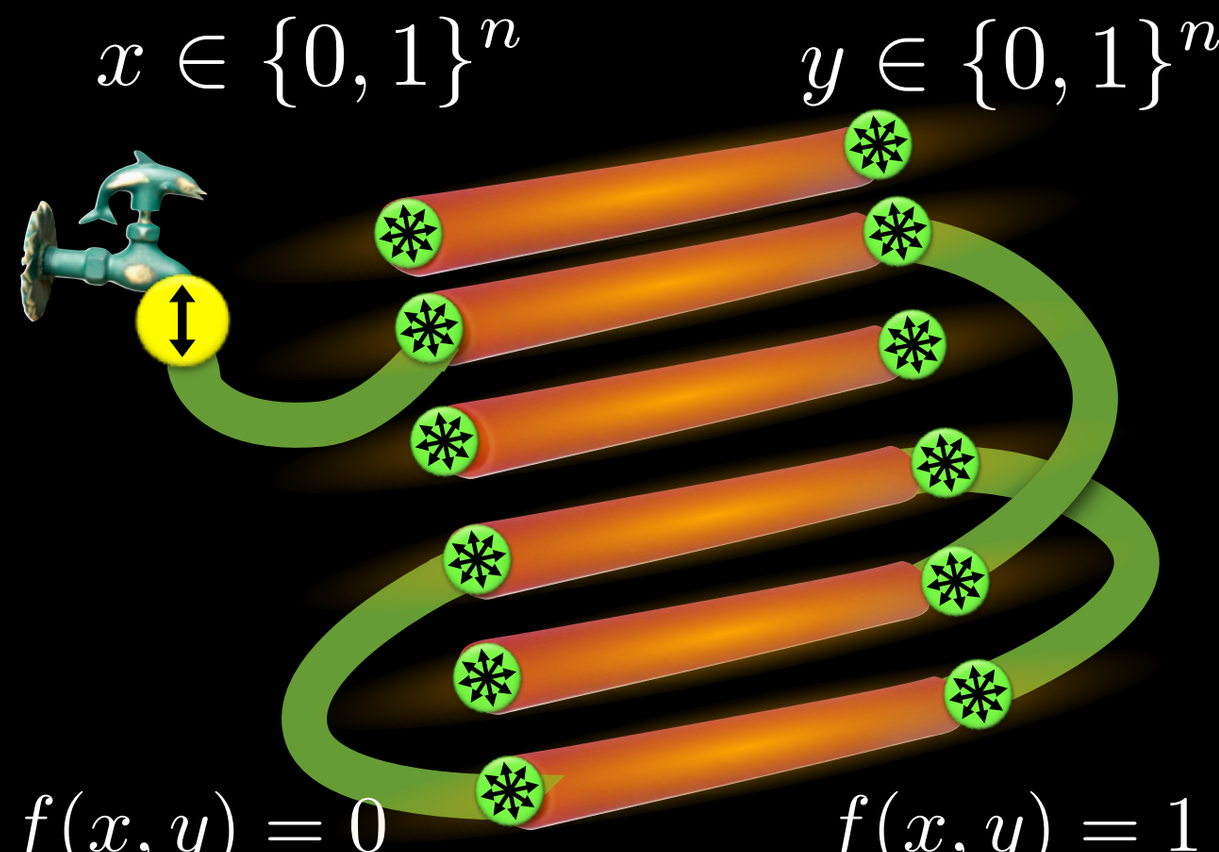

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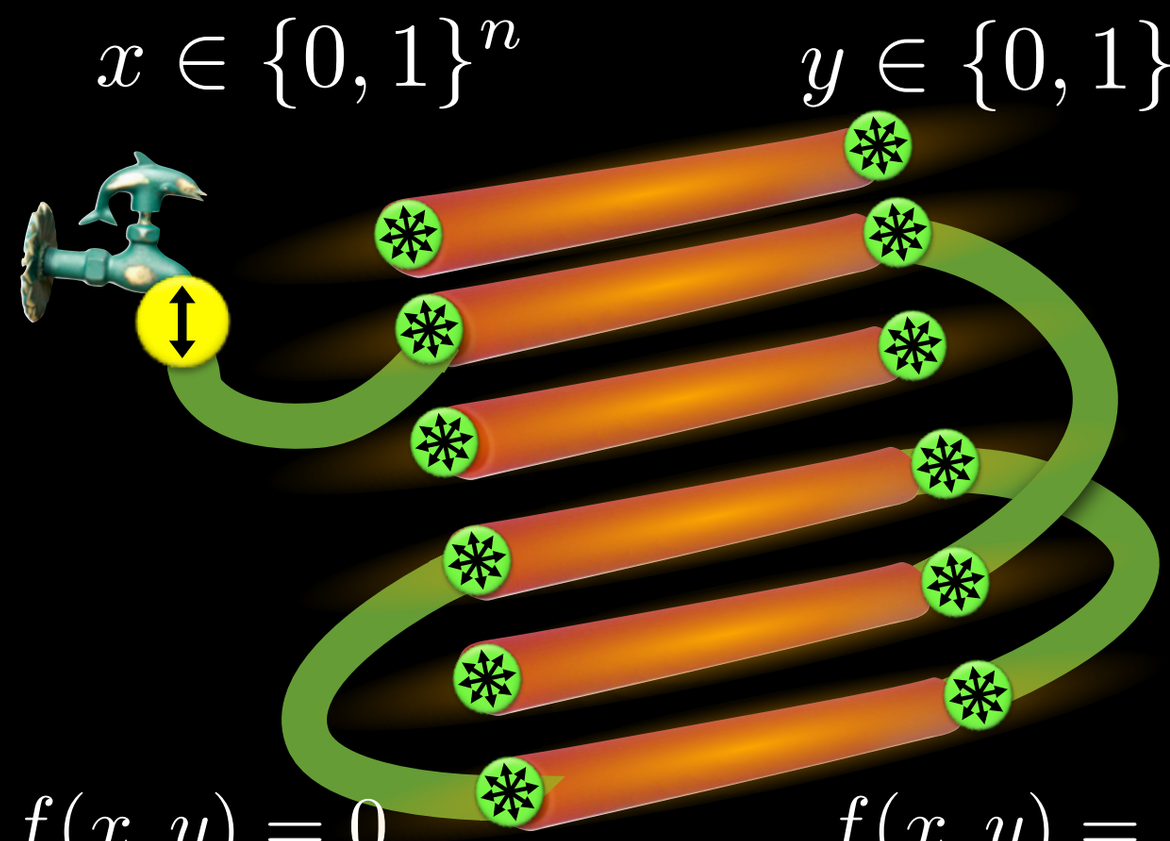

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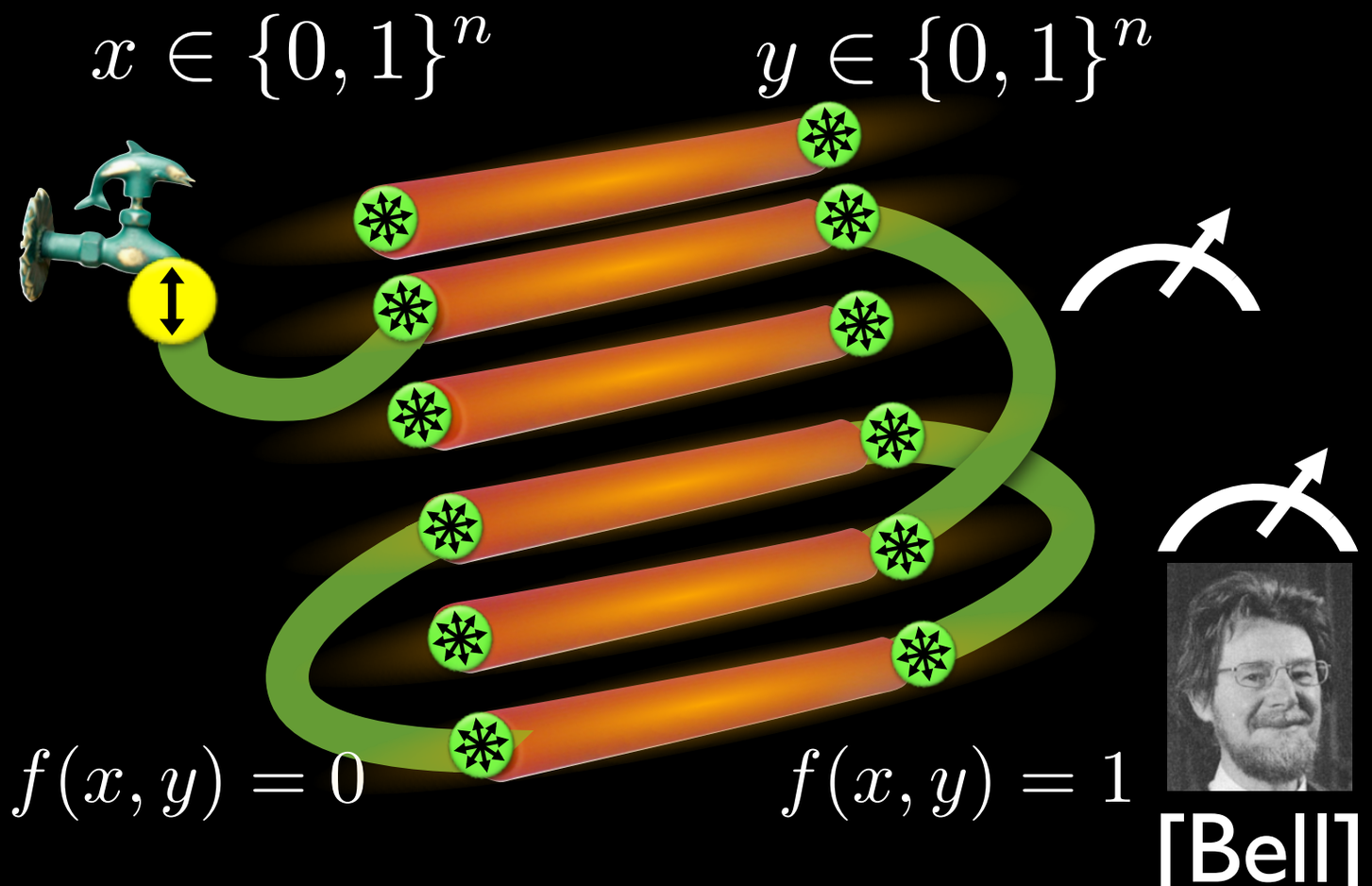

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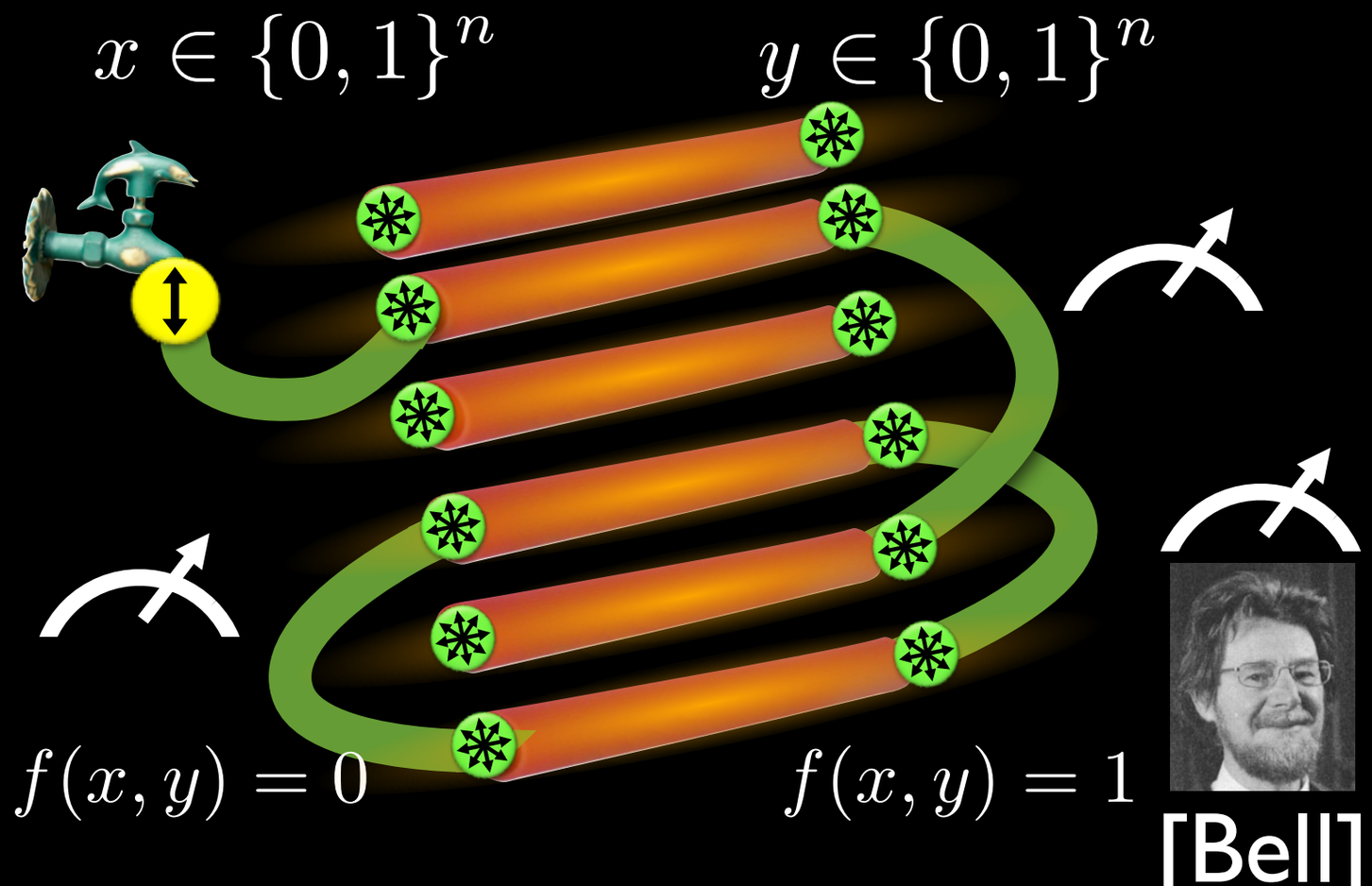

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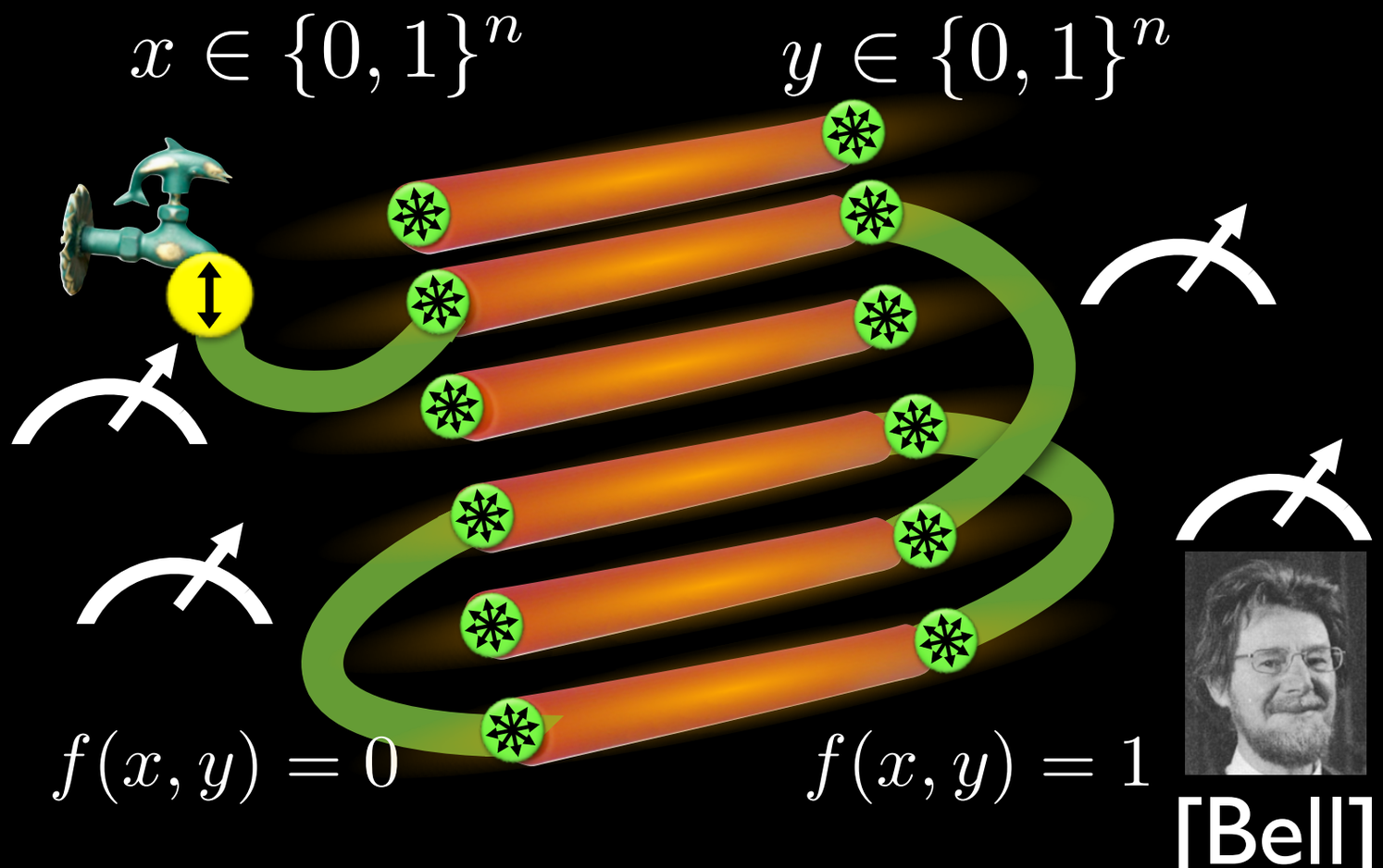

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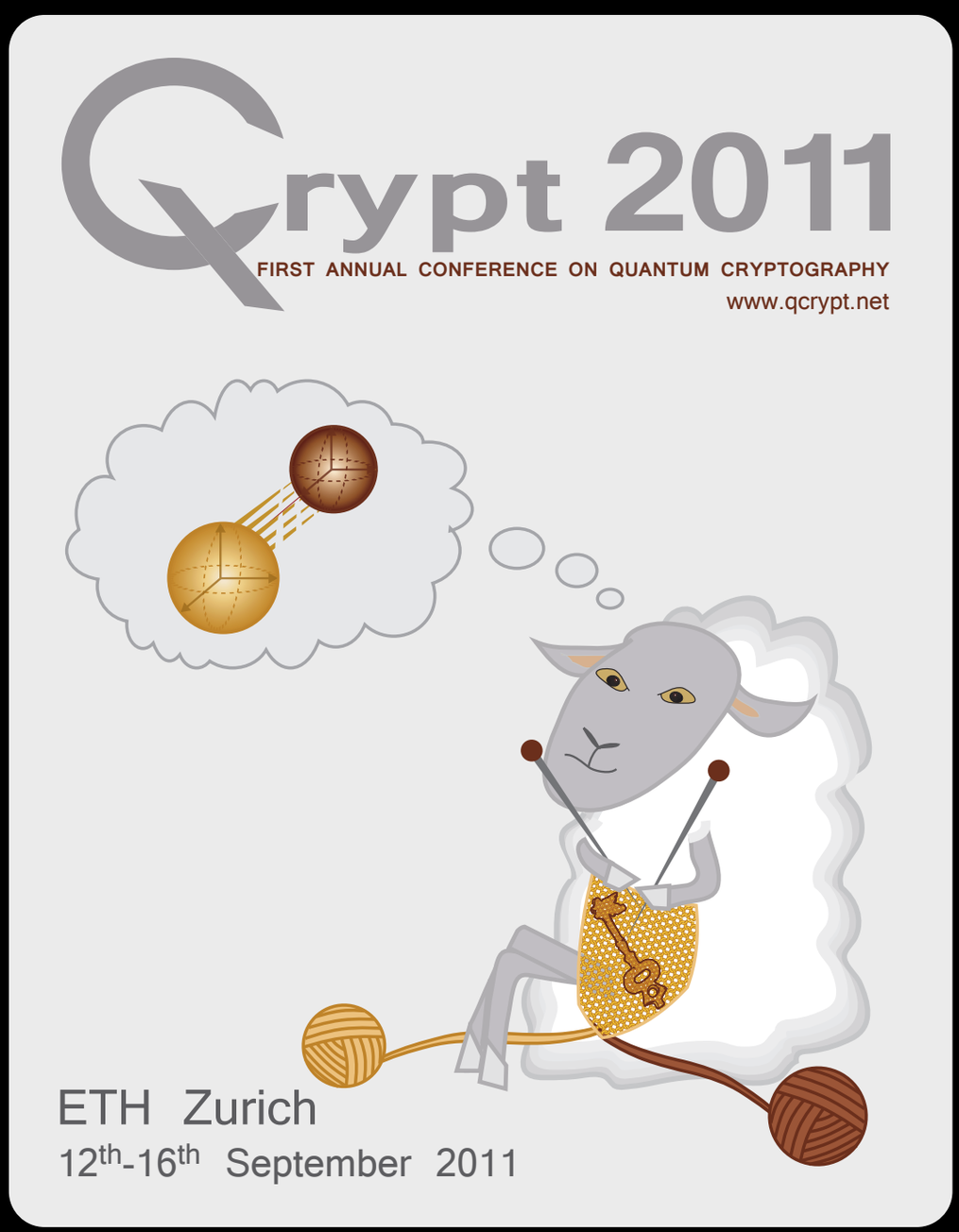

- results will be presented at QCRYPT 2011 September 12-16 at ETH Zurich
- available on the arxiv soon