



GORDON MONRO  
THE NECESSARY AND THE POSSIBLE:  
A LOGICAL FOUND OBJECT

June 29th – July 16th, 2022

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## The Necessary and the Possible: A Logical Found Object

This work displays the fourteen possibilities for ways of being true or false ("modalities") that occur in the logical system known as the modal logic S4.

Here,  $p$  stands for some proposition that could be true or could be false, for example: "*Homo sapiens* will eventually split into at least two different species".

In the diagrams the possible worlds radiate out to infinity.

$p$	$p$ is true in this world.
$\sim p$	$p$ is false in this world (but may be true in other possible worlds).
$\Box p$	$p$ is <i>necessarily</i> true: $p$ is true in every possible world.
$\Box \sim p$	$p$ is <i>necessarily</i> false: $p$ is false in every possible world.
$\Diamond p$	$p$ is <i>possibly</i> true: $p$ is true in some possible world.
$\Diamond \sim p$	$p$ is <i>possibly</i> false: $p$ is false in some possible world.
$\Box \Diamond p$	it is necessary that $p$ is possibly true: for every possible world there is another world reachable from that world such that $p$ is true in this other world.
$\Box \Diamond \sim p$	it is necessary that $p$ is possibly false: for every possible world there is another world reachable from that world such that $p$ is false in this other world.
$\Diamond \Box p$	it is possible that $p$ is necessarily true: there is a possible world such that $p$ is true in every world reachable from that world.
$\Diamond \Box \sim p$	it is possible that $p$ is necessarily false: there is a possible world such that $p$ is false in every world reachable from that world.
$\Box \Diamond \Box p$	it is necessary that it is possible that $p$ is necessarily true: for every possible world there is a possible world reachable from that world such that for every world reachable from <i>that</i> world, $p$ is true.
$\Box \Diamond \Box \sim p$	it is necessary that it is possible that $p$ is necessarily false: for every possible world there is a possible world reachable from that world such that for every world reachable from <i>that</i> world, $p$ is false.
$\Diamond \Box \Diamond p$	it is possible that it is necessary that $p$ is possibly true: there is a possible world such that for every possible world reachable from that world, there is a world reachable from <i>that</i> world in which $p$ is true.
$\Diamond \Box \Diamond \sim p$	it is possible that it is necessary that $p$ is possibly false: there is a possible world such that for every possible world reachable from that world, there is a world reachable from <i>that</i> world in which $p$ is false.

The Necessary and the Possible  
2018

digital print in 15 panels

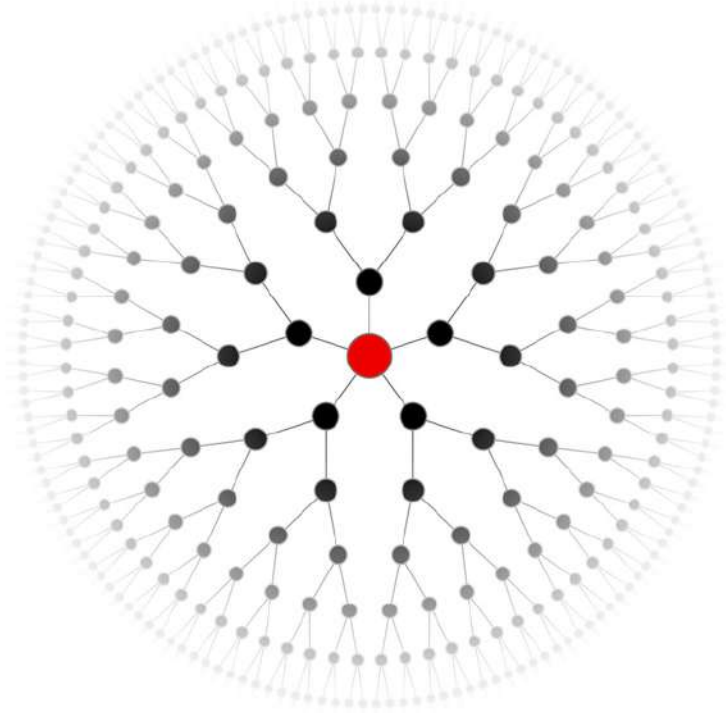
each panel 42 x 29.7 cm

Mounted on Dibond

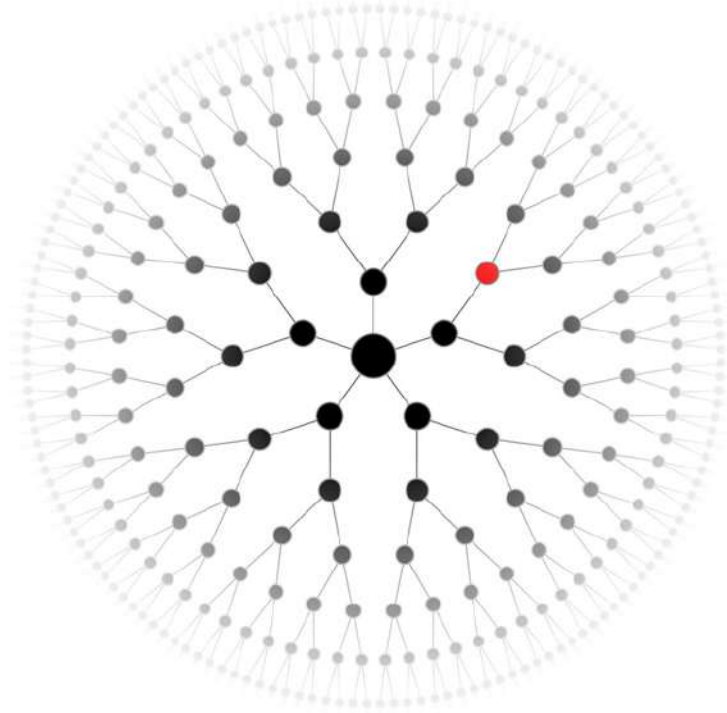
Number 2 of edition of 6

\$3200 (set of 15 panels)

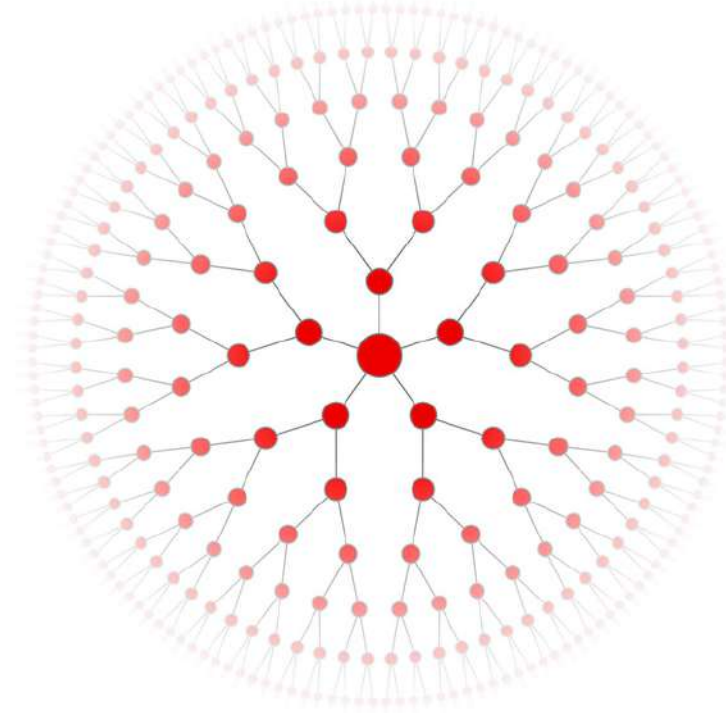
\$250 (individual panels)



$p$

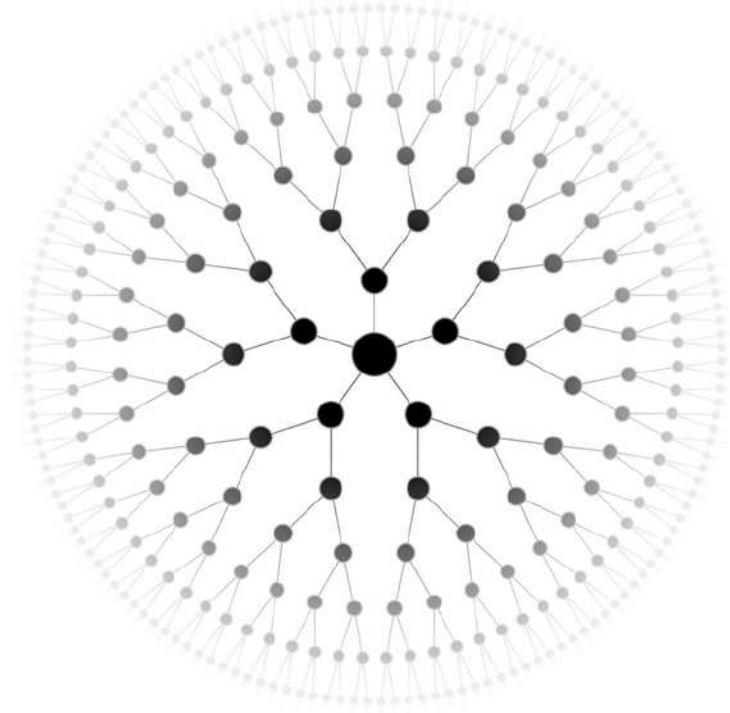


$\sim p$

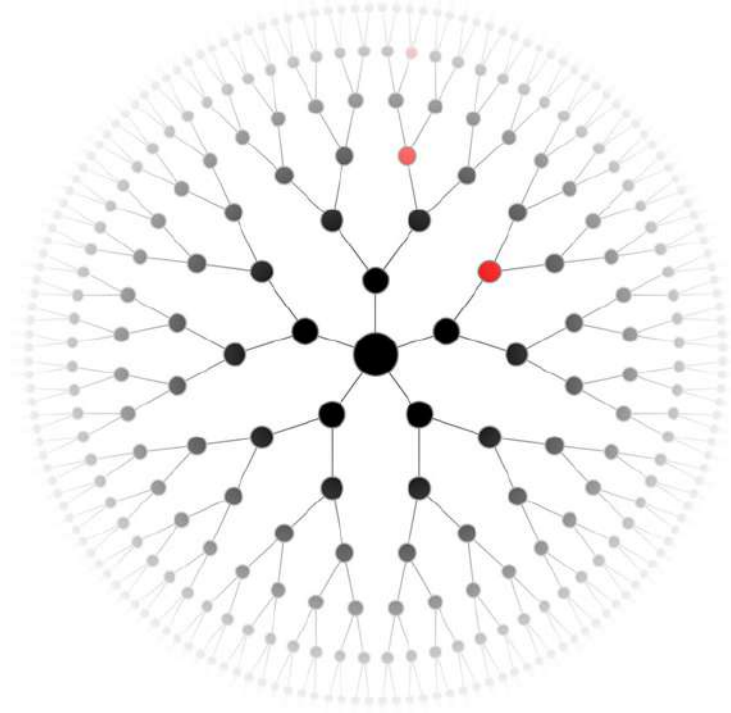


$\square p$

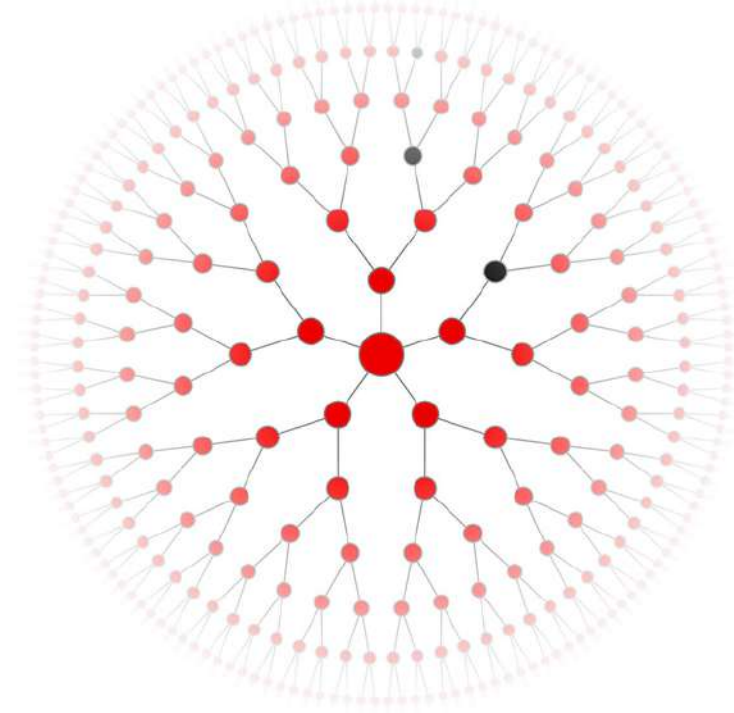
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$\square \sim p$

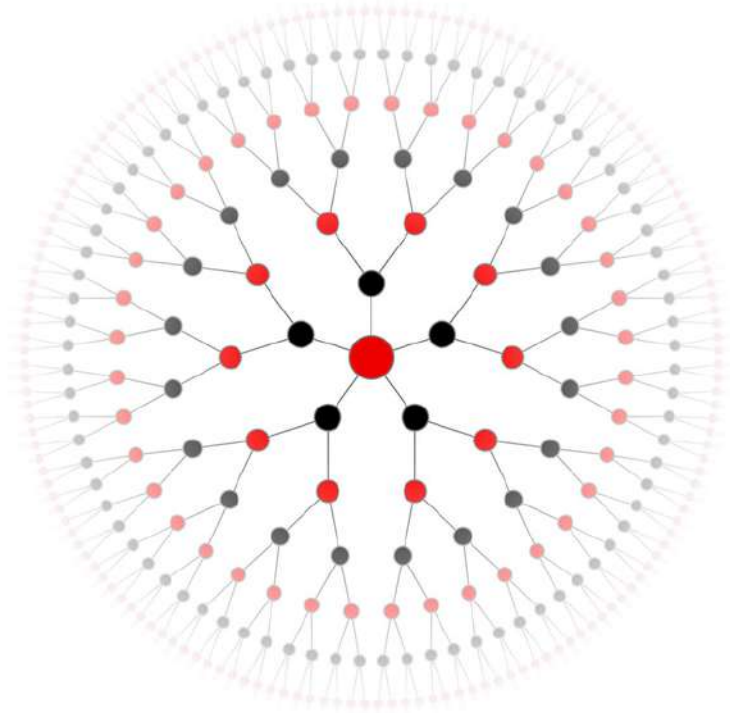


$\diamond p$

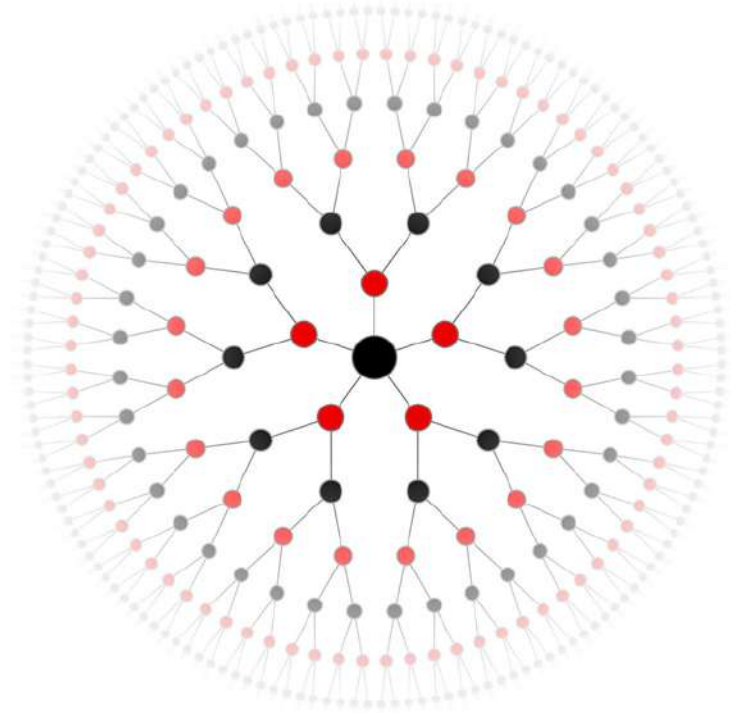


$\diamond \sim p$

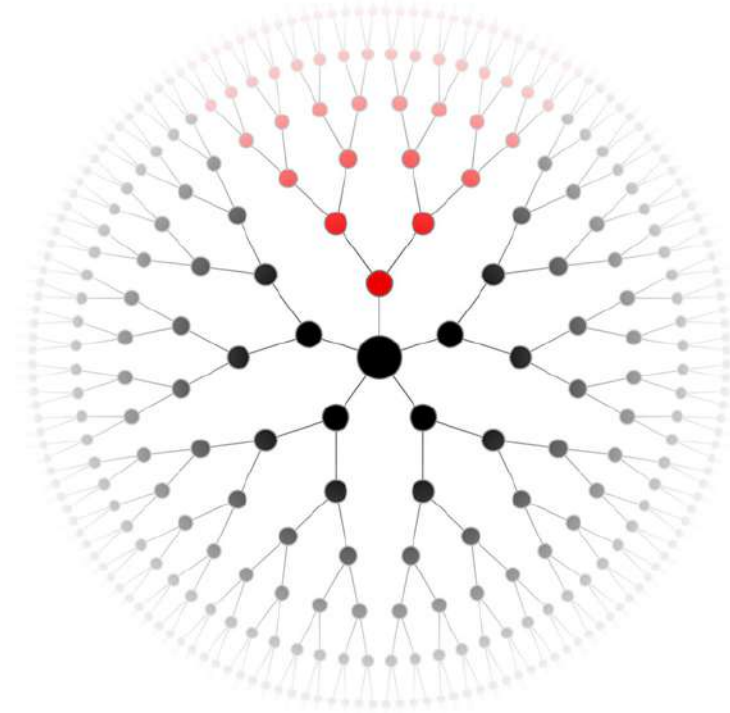
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$\square \diamond p$

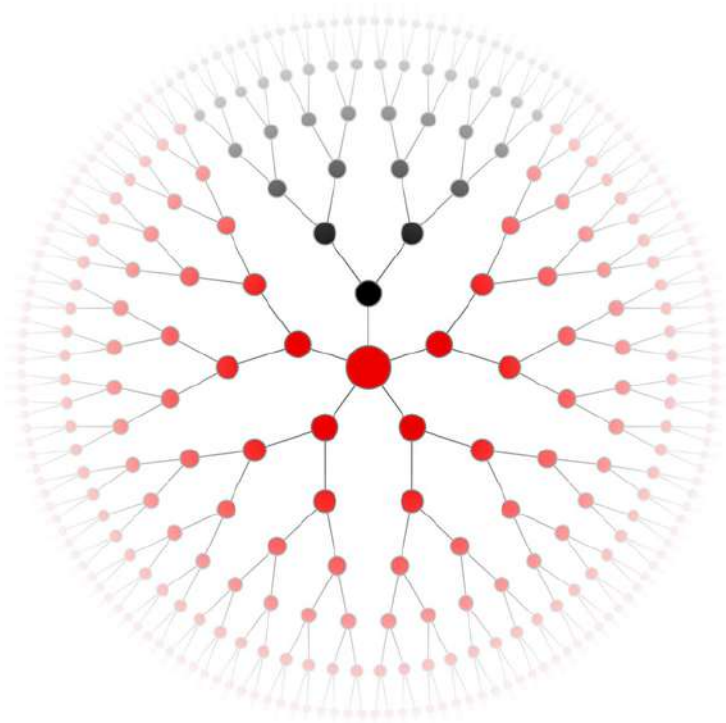


$\square \diamond \sim p$

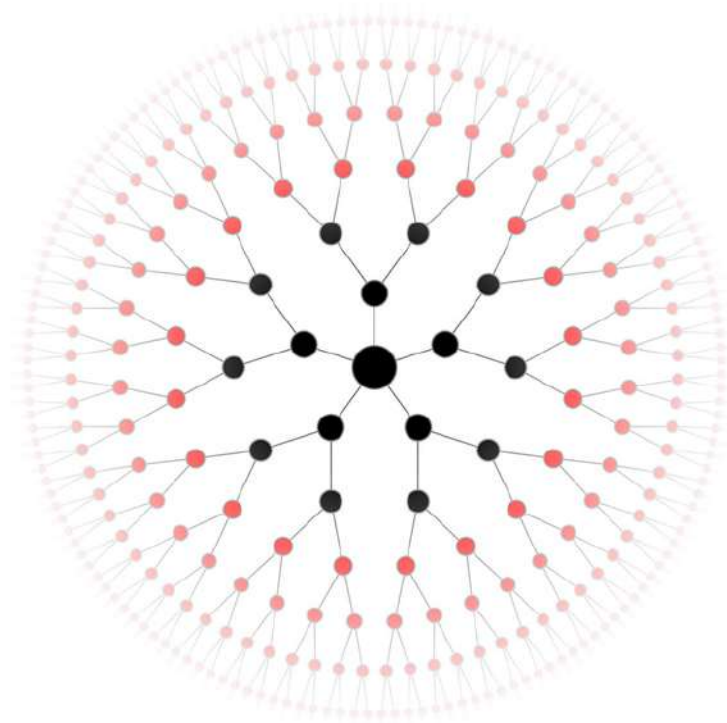


$\diamond \square p$

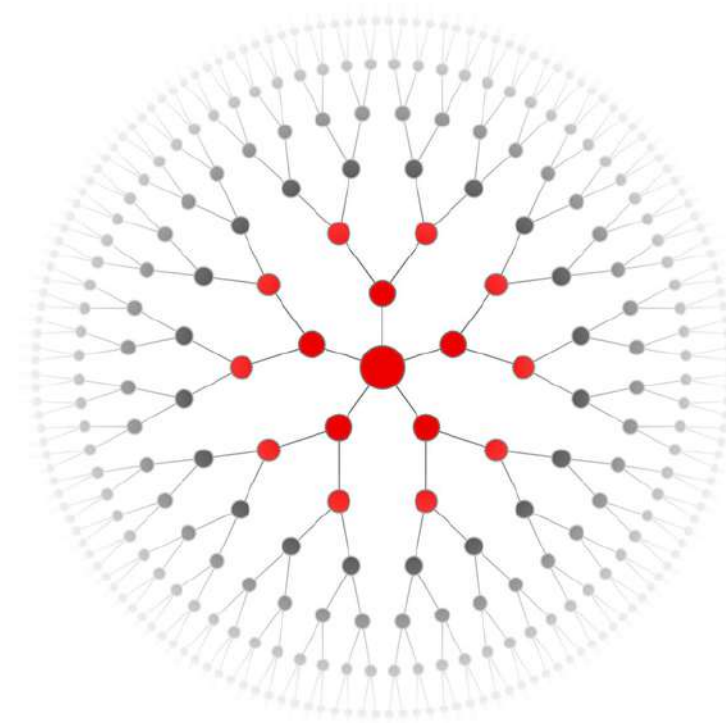
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◇□~*p*

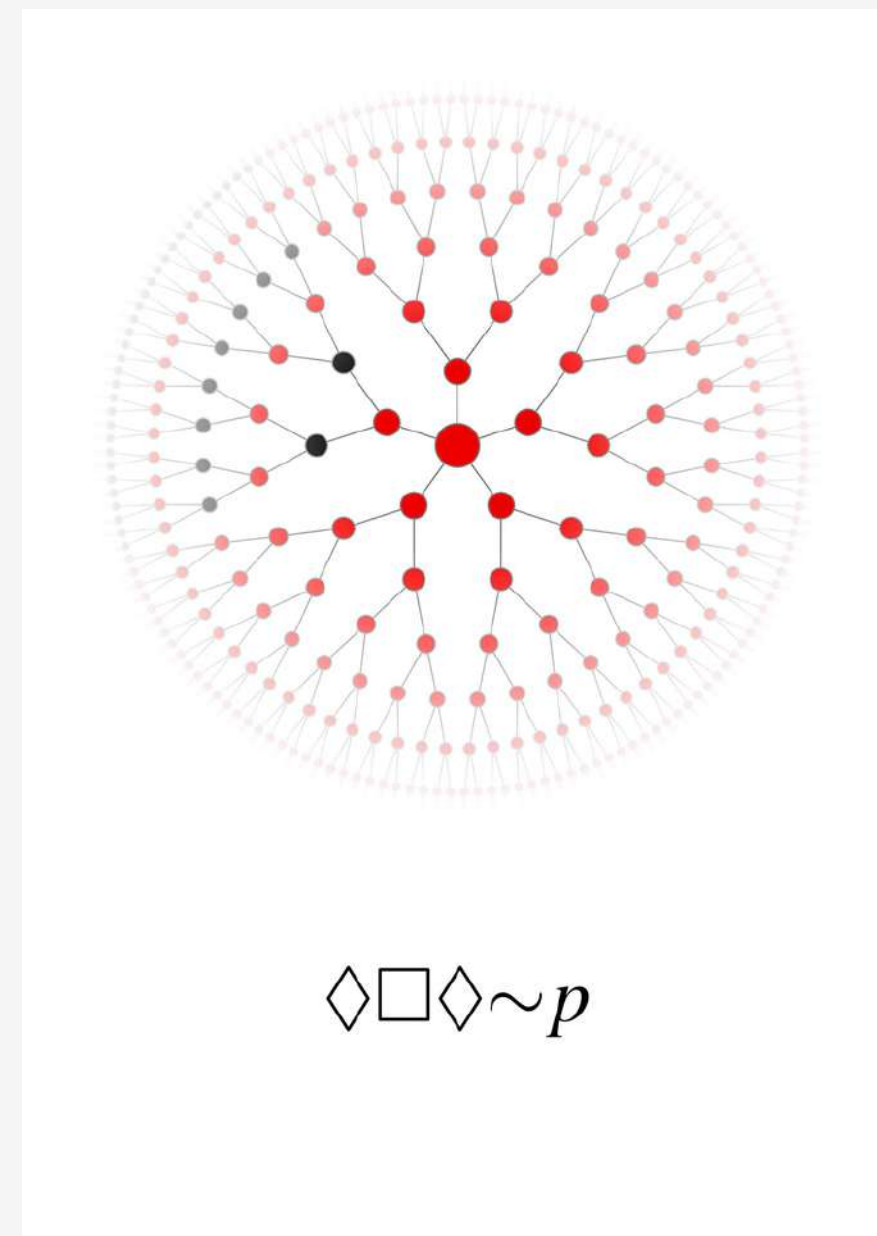
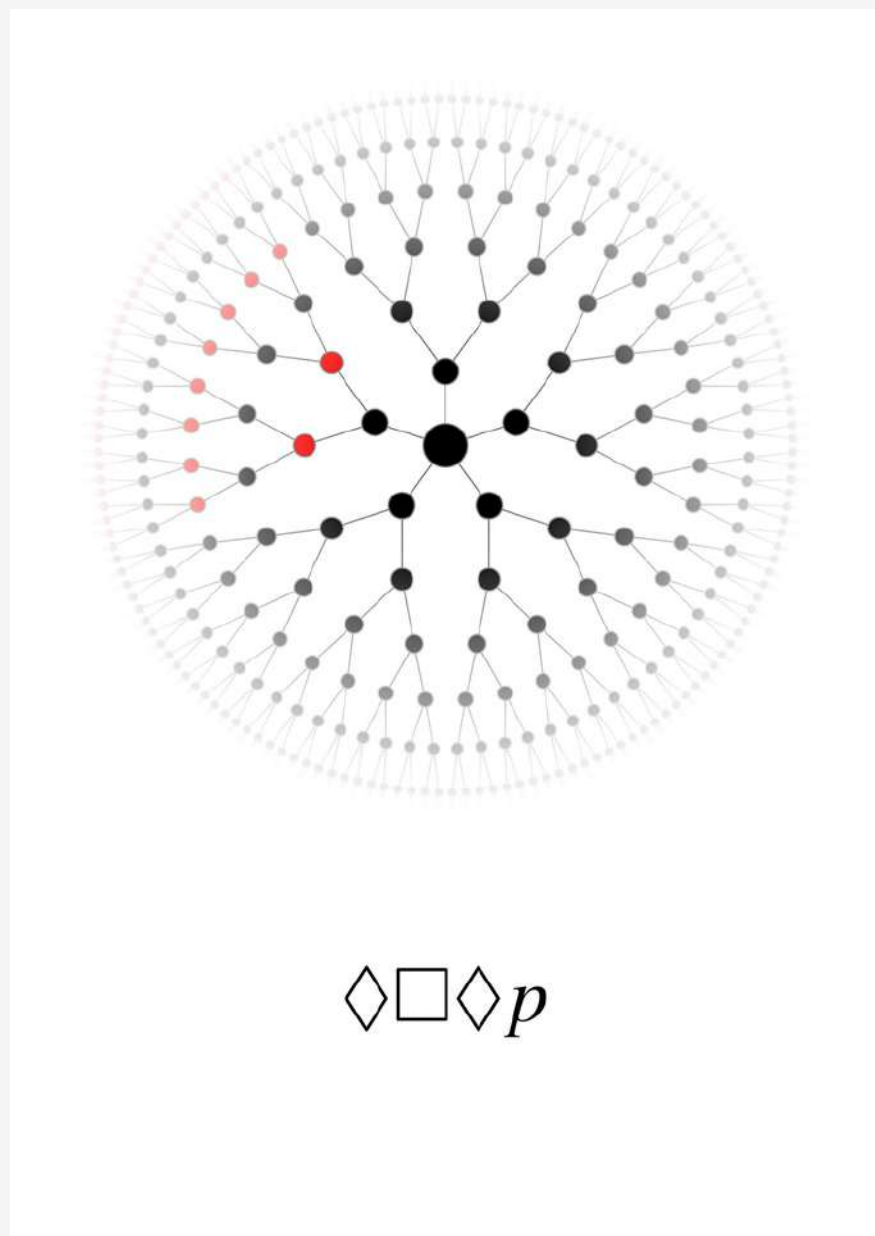


□◇□*p*



□◇□~*p*

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