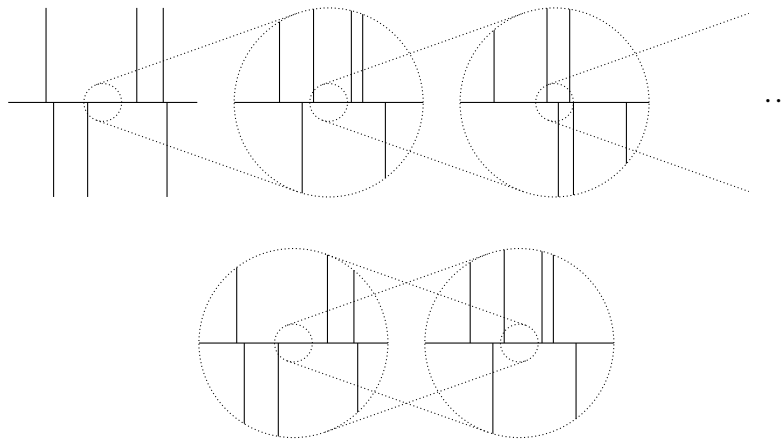


# Tikz Figures

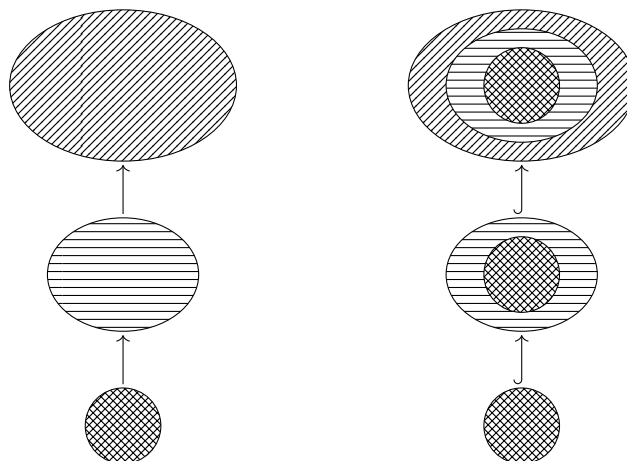
Sam Adam-Day

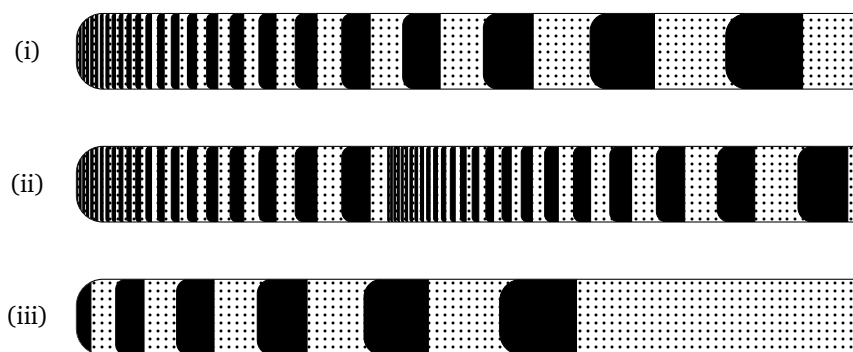
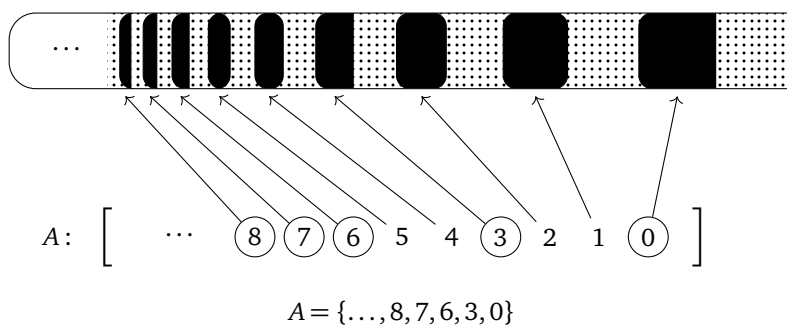
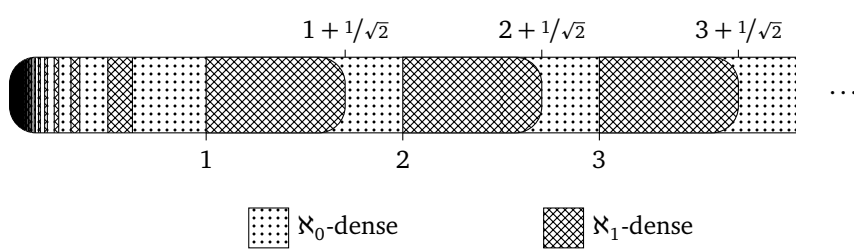
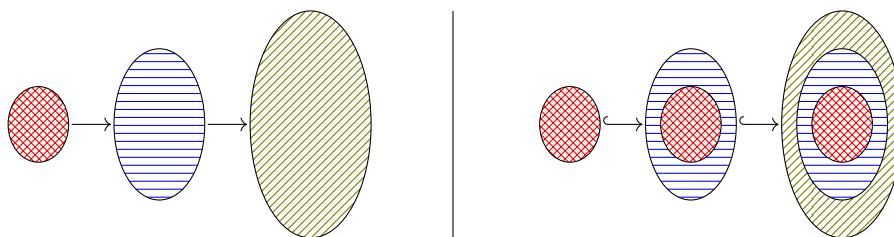
9th June 2022

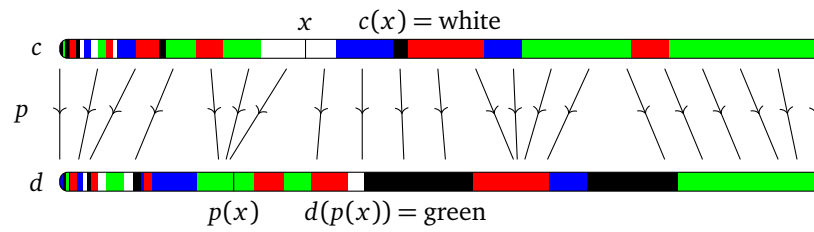
## Magnifying an $\mathbb{R}$ -tree



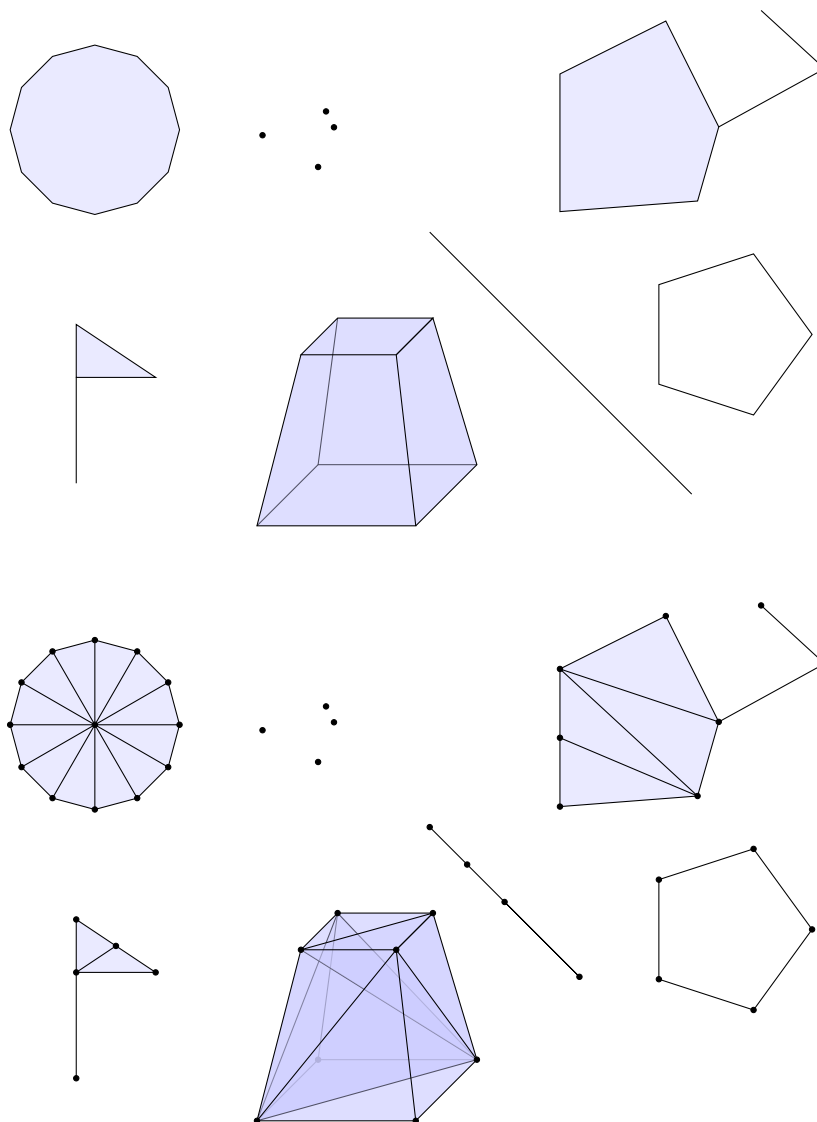
## Crosshatch shapes

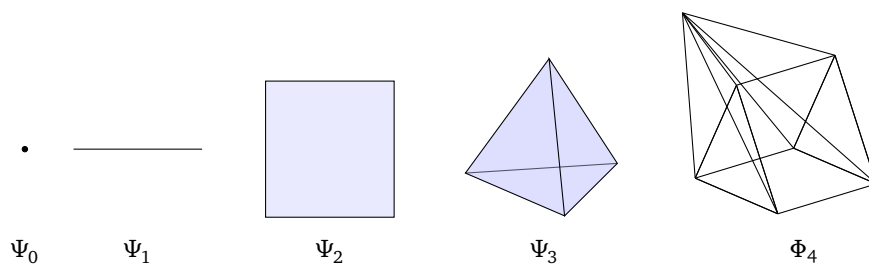
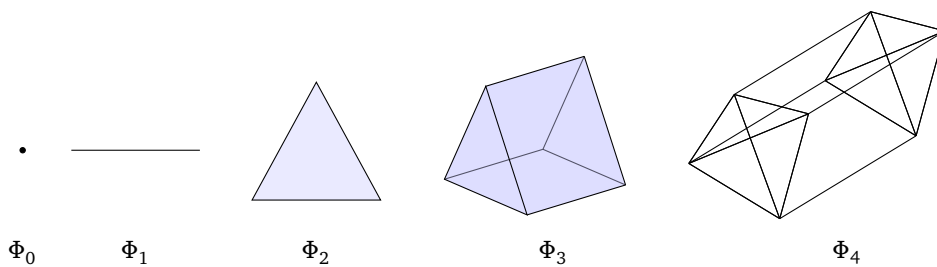
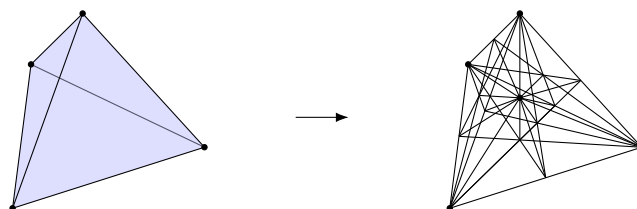
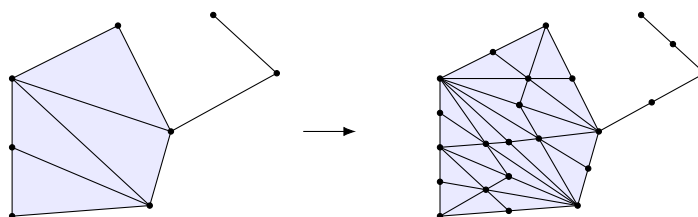
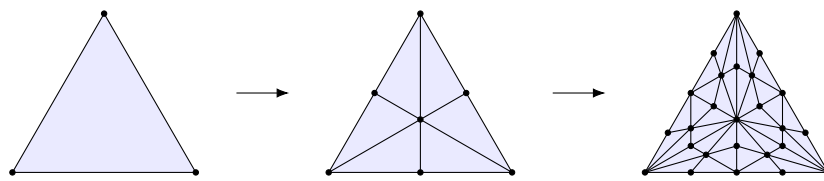


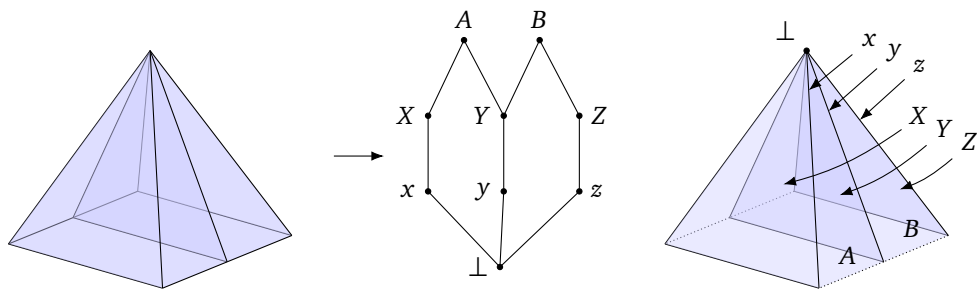




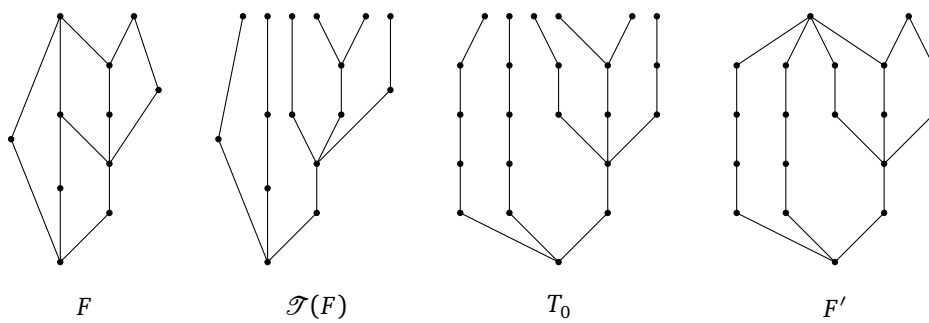
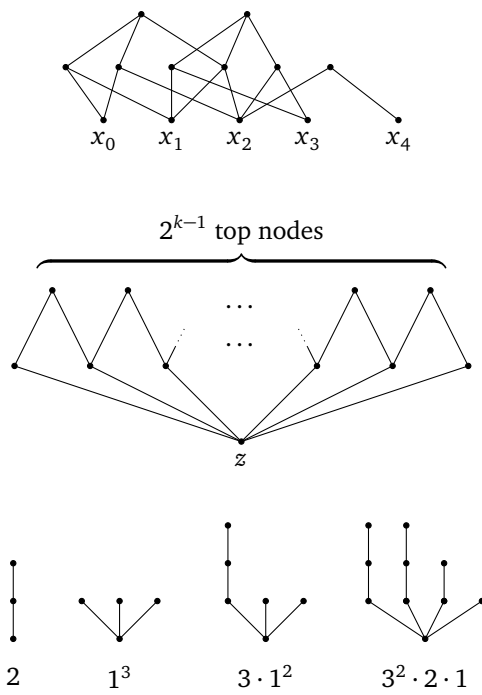
## Polygons and Polyhedra

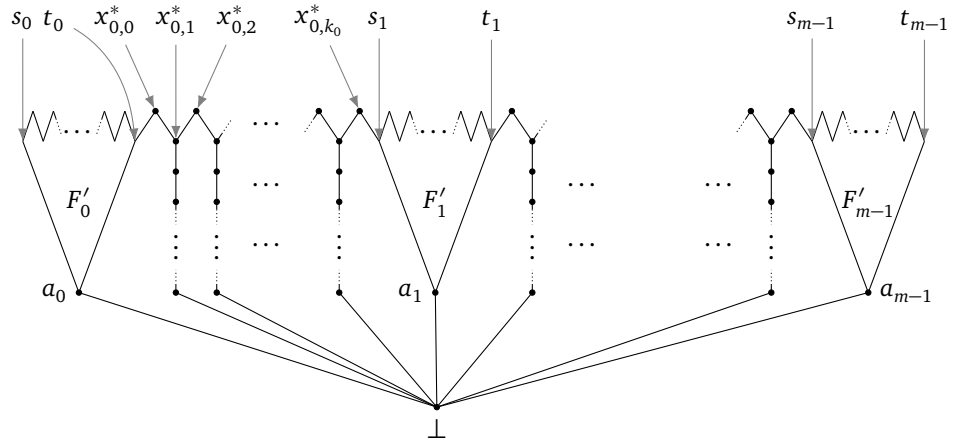
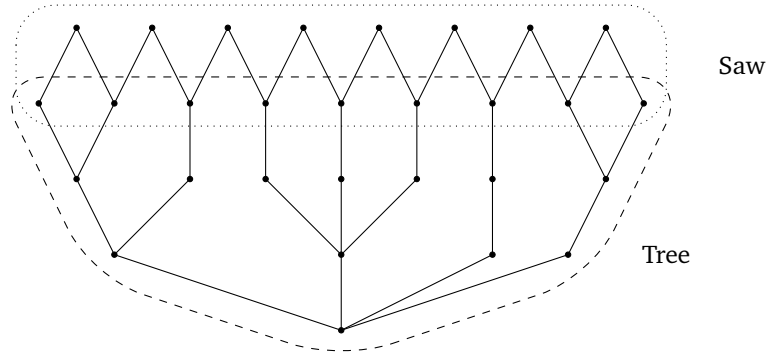
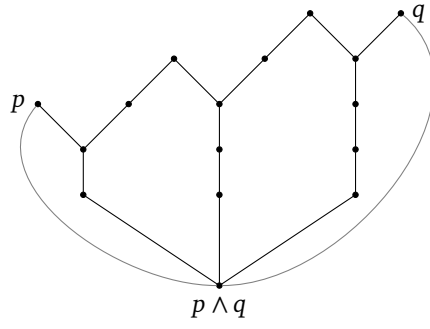


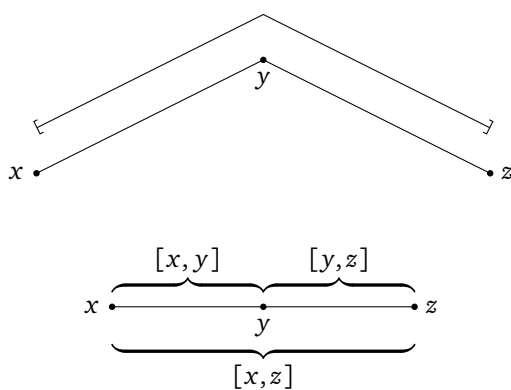
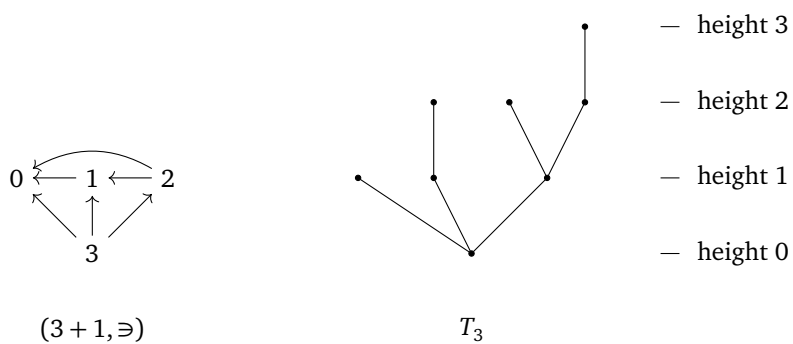
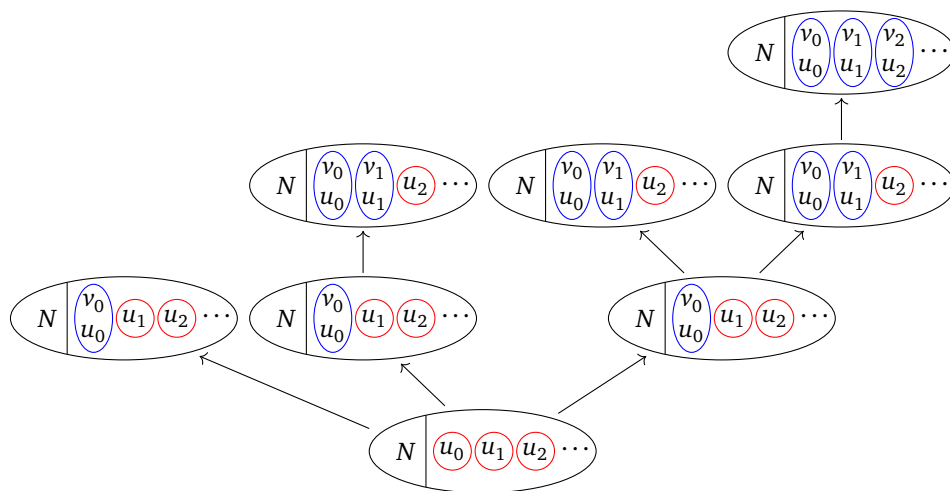


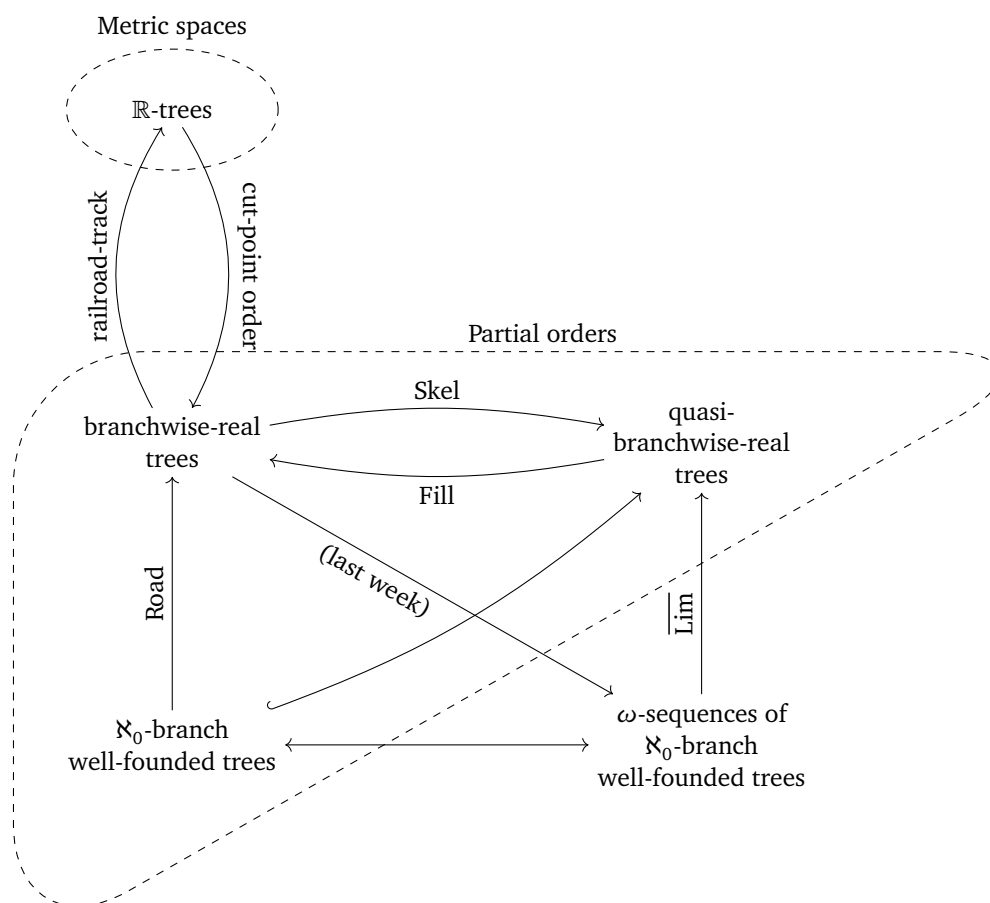


## Graphs

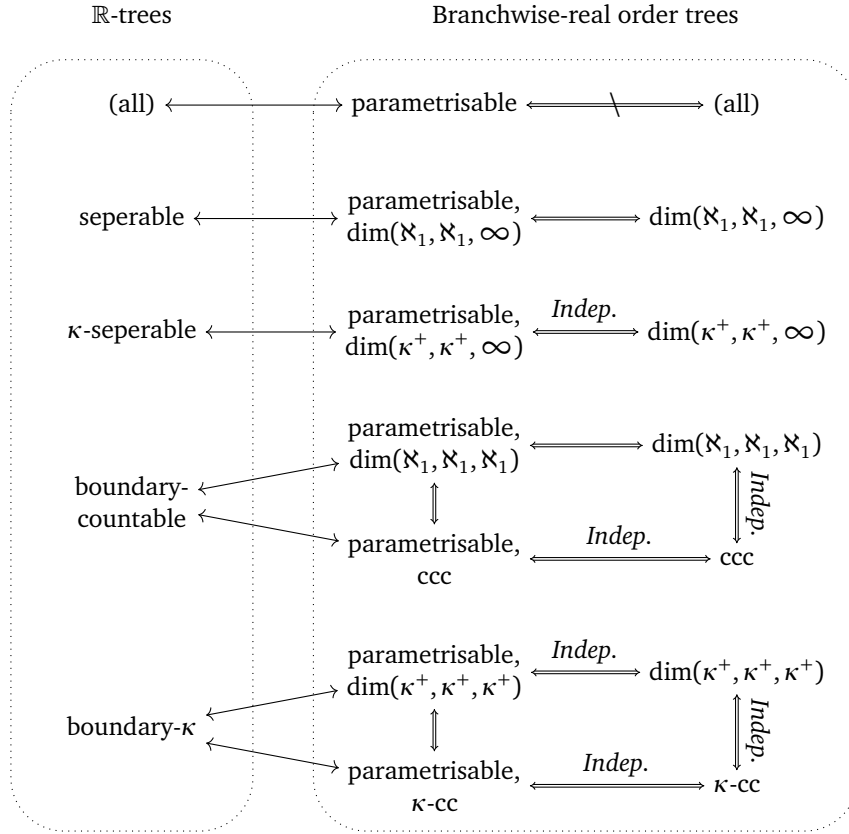




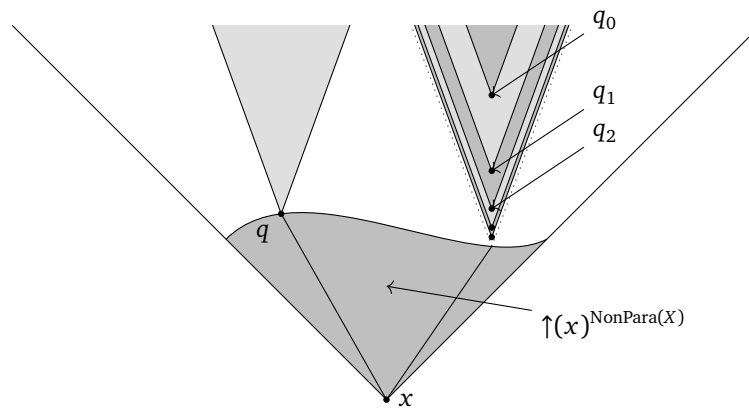


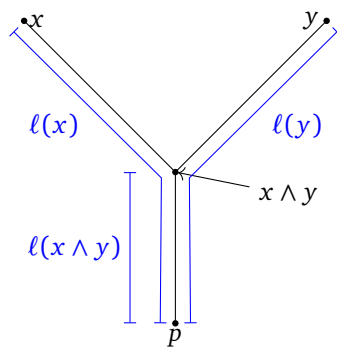
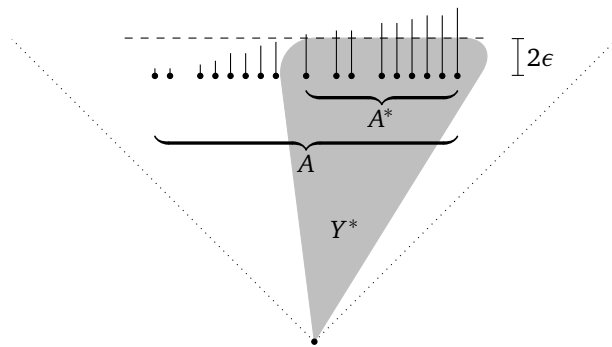
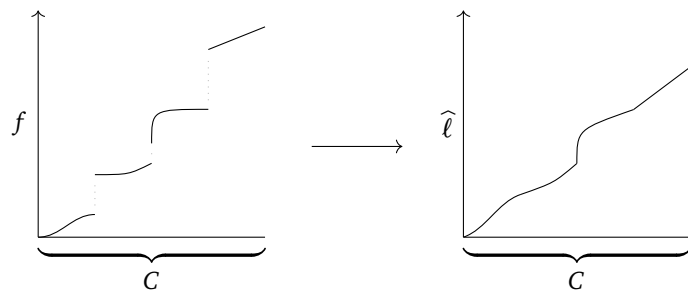
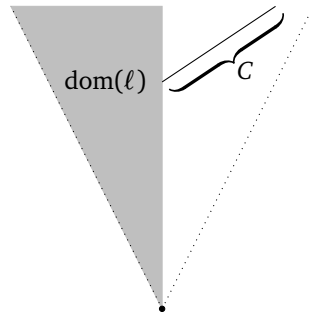


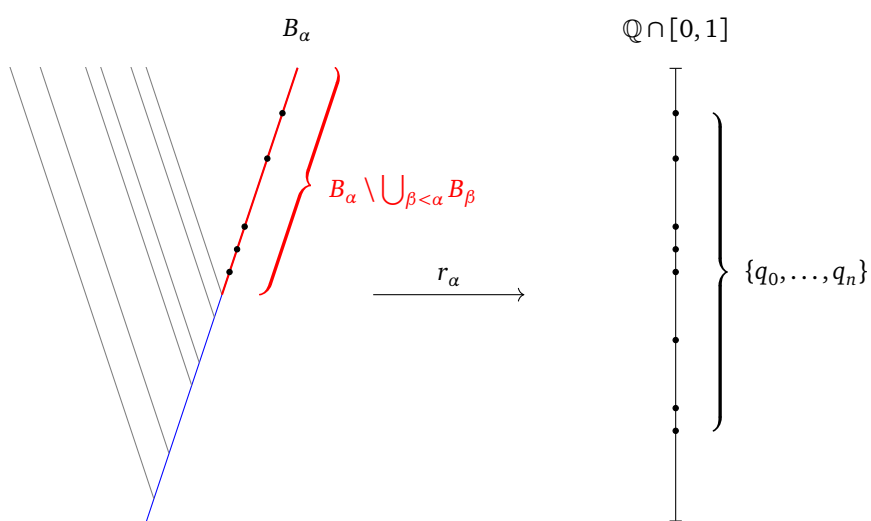
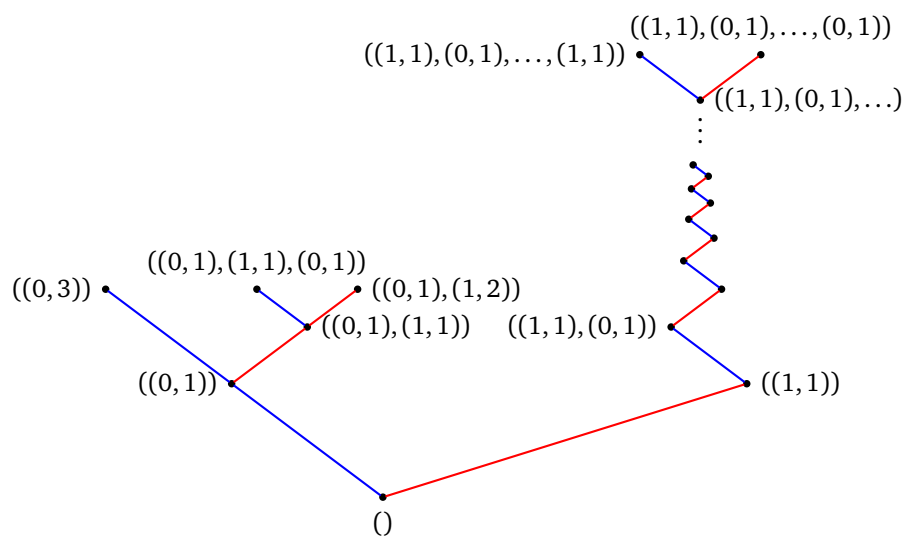


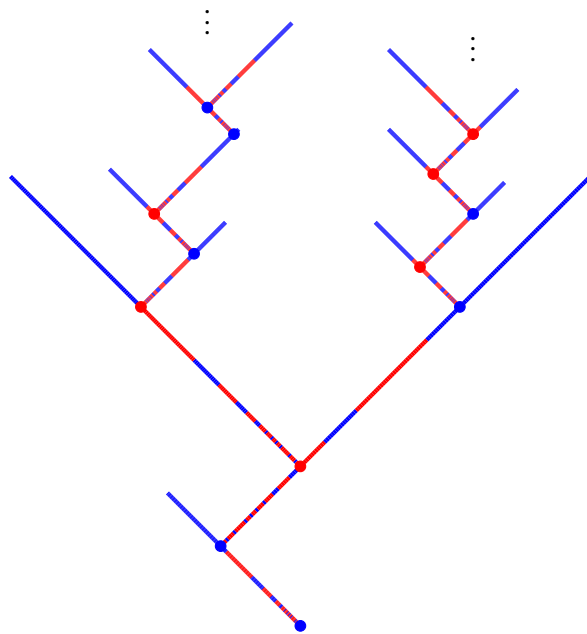


## Trees



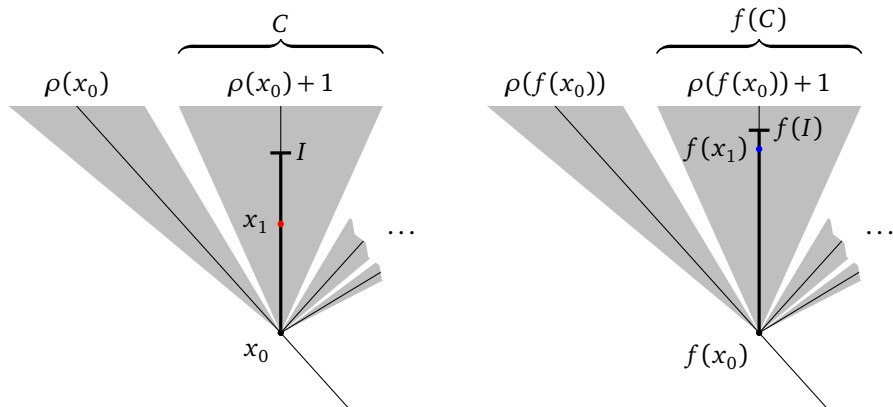
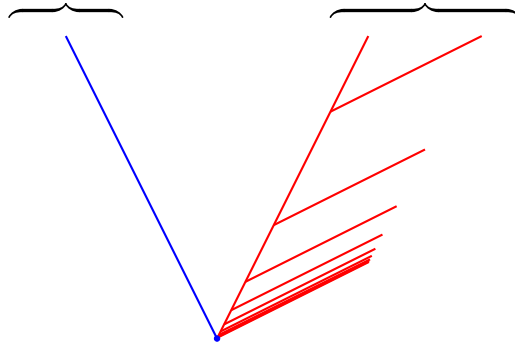


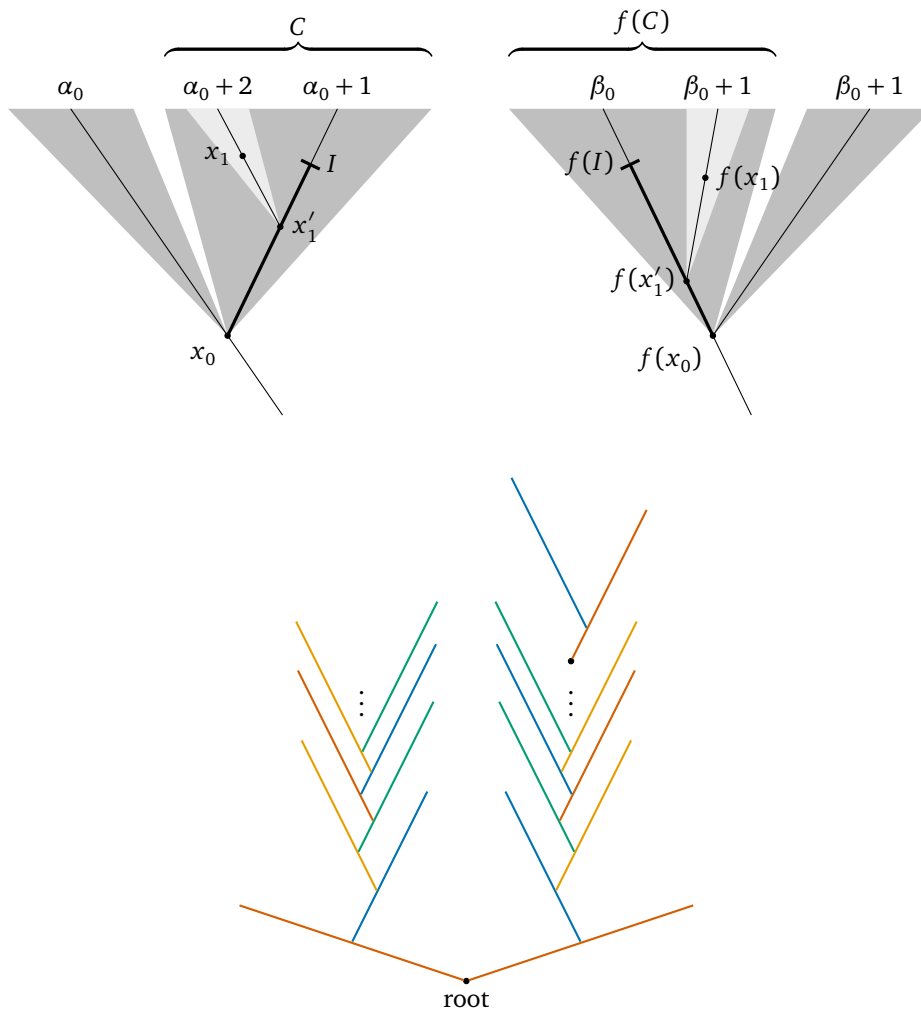


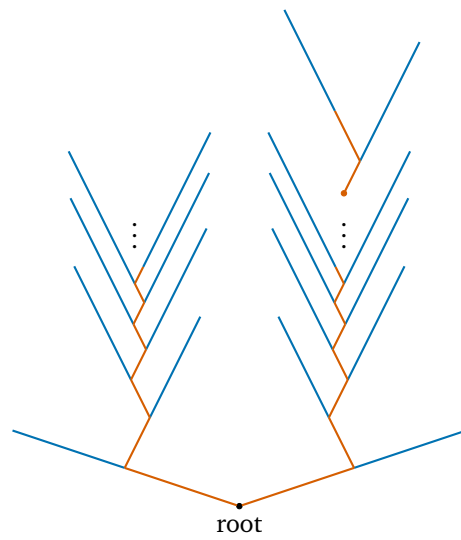


Eloise wins

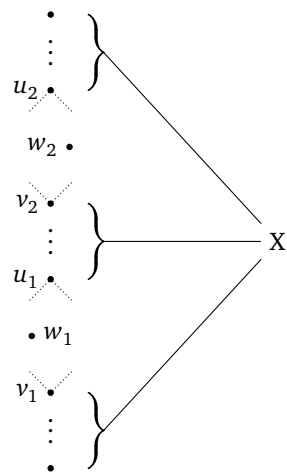
Abelard wins



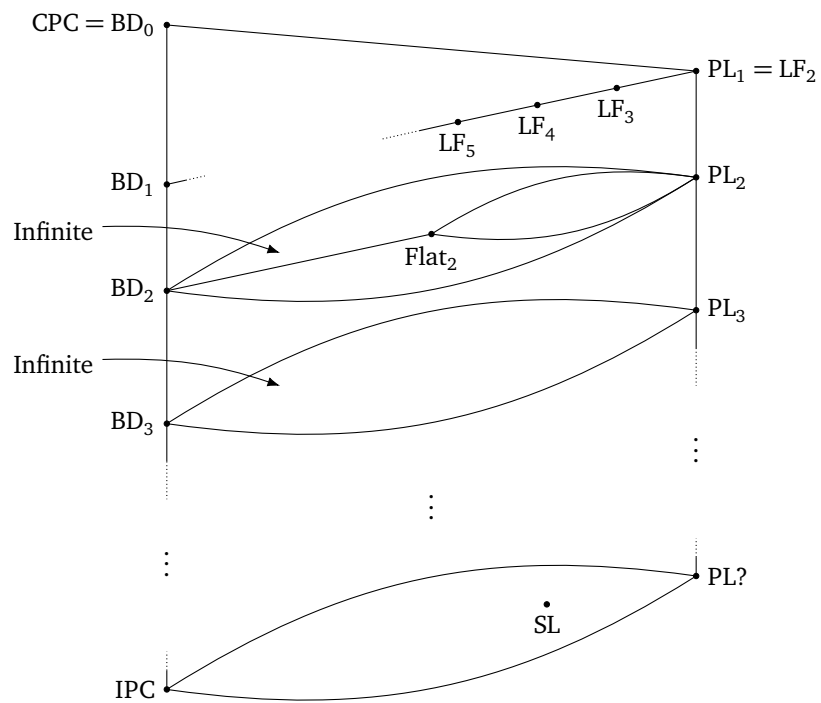




## Gaps in a poset



## The landscape of polyhedrally-complete logics



## Index

- 3dplot, 3
  - overlapping shading, 3
- 4D, 4
- array, 2
  - comparing values, 2
  - listofitems, 12
  - two-dimensional, 3, 10
- arrows
  - bar, 10
  - bracket, 7
  - double, 9
  - hooked, 1
  - mid-line, 3
- barycentre, 4
- brace, 5, 14
  - with label, 7, 12, 13
- calc
  - projection, 13
  - relative position, 7
- calligraphy library, 5
- clip, 1–3, 9
  - cut away, 12
- colourblind palette, 13, 14
- decorations library, 3, 5
  - coloured, 11
- every
  - node, 5, 9, 11, 14
  - path, 9, 11, 13, 14
- foreach, 2, 3, 6–10, 12
  - backwards, 9
  - change variable, 3
  - tikzmath, 11, 12
- function plot, 10
- graph
  - use existing nodes, 7
- graph library, 5
  - custom, 6
  - poset, 5
  - use existing nodes, 4, 6
- if statement
  - ifthenelse, 2, 6
  - tikzmath, 12
- legend, 2
- library
  - calligraphy, *see* calligraphy library
  - decorations, *see* decorations library
  - graph, *see* graph library
  - math, *see* math library
  - patterns, *see* patterns library
- limit visualisation, 2, 8, 12–14
- magnifying glass, 1
- manual scaling, 8
- math functions
  - mod, 9
  - trigonometry, 1, 8
- math library, 11, 12
- multiline node text, 8, 9
- newcommand, 6
- node on path, 10
  - fraction position, 8, 9, 13, 14
  - midway, 7, 8
  - sloped, 8, 9
- node shaped as coordinate, 11
- overlap, 1
- package
  - pgfplots, *see* pgfplots12
- path
  - curved, 6, 9, 10, 15
  - cycle, 6, 8
  - dotted continuing, 15
  - negated, 9
  - partly rounded, 2, 3, 10
  - rounded, 6, 8, 9
  - variably coloured, 12, 14
- patterns library, 1, 2
  - coloured, 2
- pgfplots, 12
  - colormap, 12
- polygon, 3
- polyhedron, 3
- transformation
  - rotate, 2



slant, 10

variable

from expression, 9

global, 3

pgfmathparse, 9

pgfmathsetmacro, 2, 3, 8–10, 12

tikzmath, 11, 12