Multiverse Go

1 Rules

Multiverse go is a variant similar but distinct from 3D go. Like 3D go, it is played on a 3D goban. However, the rules concerning stone liberties are different. The game is played on a 3D goban; in this document we will use the $5 \times 5 \times 5$ grid as an example. Rather than seeing it as a single $5 \times 5 \times$ game of go, it should be seen as 15 separate (but connected) 5×5 games. Each 2D "slice" of the 3D goban represents a separate "flat" game. In practice, when each move in the $5 \times 5 \times 5$ goban corresponds to 3 moves and 12 passes in the 5×5 "slice" gobans.

Each intersection can be identified by using 3D coordinates which range from `A1do` to `E5so`, where

- the first axis contains coordinates `A`, `B`, `C`, `D`, `E`;

- the second axis contains coordinates `1`, `2`, `3`, `4`, `5`; and

- the third axis contains coordinates `do`, `re`, `mi`, `fa`, `so`,

These 3D coordinates uniquely identify both the 2D "slice" gobans in which the moves are being played, and the coordinates within those "slice" gobans. Each 2D board has a unique name; in $5 \times 5 \times 5$ multiverse go, the names are `A`, `B`, `C`, `D`, `E`, `1`, `2`, `3`, `4`, `5`, `do`, `re`, `mi`, `fa`, and `so`. As an example, move `B4mi` represents the following "flat" coordinates:

- Move `4mi` on board `B`;

- Move `Bmi` on board `4`; and

- Move `B4` on board `mi`.

A — columns 1 2 3 4 5; rows do re mi fa so

B — columns 1 2 3 4 5; rows do re mi fa so

C — columns 1 2 3 4 5; rows do re mi fa so

D — columns 1 2 3 4 5; rows do re mi fa so

E — columns 1 2 3 4 5; rows do re mi fa so

1 — columns do re mi fa so; rows A B C D E

2 — columns do re mi fa so; rows A B C D E

3 — columns do re mi fa so; rows A B C D E

4 — columns do re mi fa so; rows A B C D E

5 — columns do re mi fa so; rows A B C D E

do — columns A B C D E; rows 1 2 3 4 5

re — columns A B C D E; rows 1 2 3 4 5

mi — columns A B C D E; rows 1 2 3 4 5

fa — columns A B C D E; rows 1 2 3 4 5

so — columns A B C D E; rows 1 2 3 4 5

Column 1 — grids A–G (rows: do, re, mi, fa, so, la, ti; columns: 1 2 3 4 5 6 7)

A, B, C, D, E, F, G

Column 2 — grids 1–7 (columns: do re mi fa so la ti; rows: A, B, C, D, E, F, G)

1, 2, 3, 4, 5, 6, 7

Column 3 — grids do–ti (columns: A B C D E F G; rows: 1 2 3 4 5 6 7)

do, re, mi, fa, so, la, ti