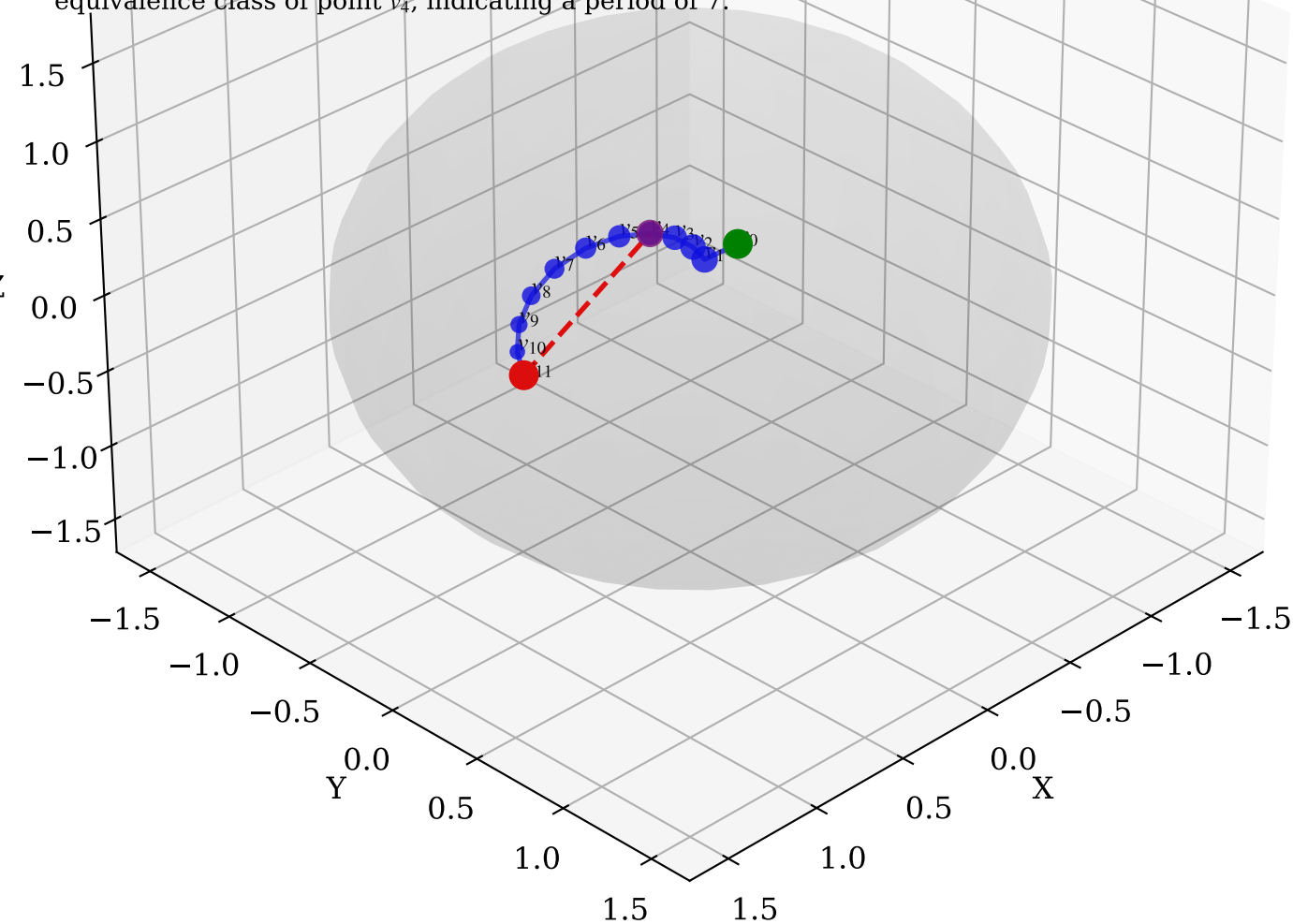


Projective Trajectory of $\sqrt[3]{2}$ Through HAPD Algorithm

Periodicity Detection in Projective Space

This visualization shows how the HAPD algorithm tracks the projective coordinates of $\sqrt[3]{2}$ through successive transformations.

Periodicity is detected when point v_{11} returns to the projective equivalence class of point v_4 , indicating a period of 7.



- Initial point v_0
- Final point v_{11}
- Periodic point v_4