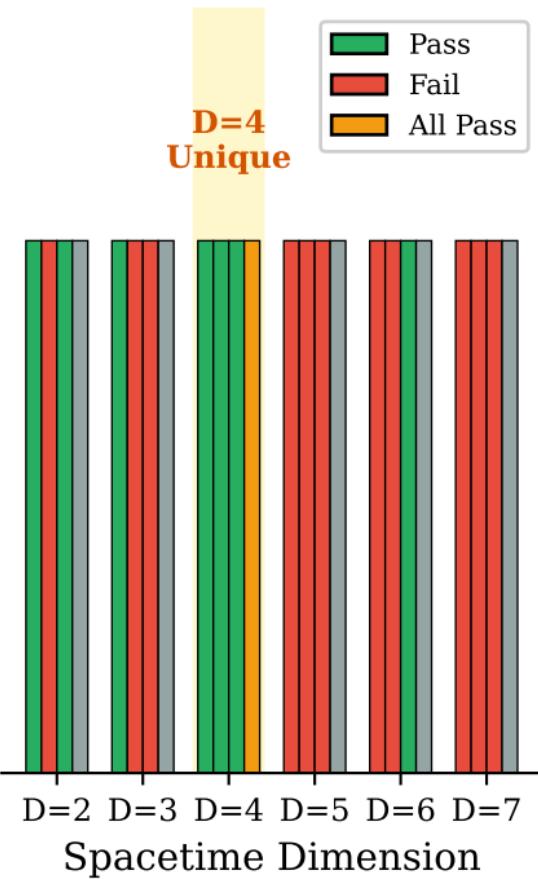


(a) Stability Requirements



(b) Polyhedra Elimination (Theorem 3)

Polyhedron	V	GR1	GR2	GR3	M1	M2	Result
Two triangles	6	●	●	✗	✗	✗	FAIL
Octahedron	6	✗	✗	✗	✗	●	FAIL
Cube	8	✗	✗	●	●	●	FAIL
Prism	6	●	✗	✗	✗	●	FAIL
Stella octangula	8	●	●	●	●	●	PASS

Only stella octangula satisfies all geometric realization (GR) and minimality (M) conditions.