

CCFU Proof 25

Stability of Ω_W

Given. $\dim \text{GL}(7) = 49.$ $\dim \Lambda^3(\mathbb{R}^7) = \binom{7}{3} = 35.$ $\dim \text{Stab}(\Omega_W) = 14$ [Proof 23].

$$\dim \text{orbit} = 49 - 14 = 35 = \dim \Lambda^3(\mathbb{R}^7).$$

Orbit is open. Ω_W is stable. ■

[Dependency: Proof 23.]