Moho-Veil Chain - Version 1

First Derivation: Establishing 2000pi as R_Moho

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Version 1 of the Moho-Veil chain established 2000pi = 6,283.2 km as the primary tau-node for the Moho radius. This first derivation identified the veil height as an atmospheric tau-register boundary, paving the way for the refined v2 derivation.

Figure 1: 2000pi vs Actual Moho (v1 Derivation)

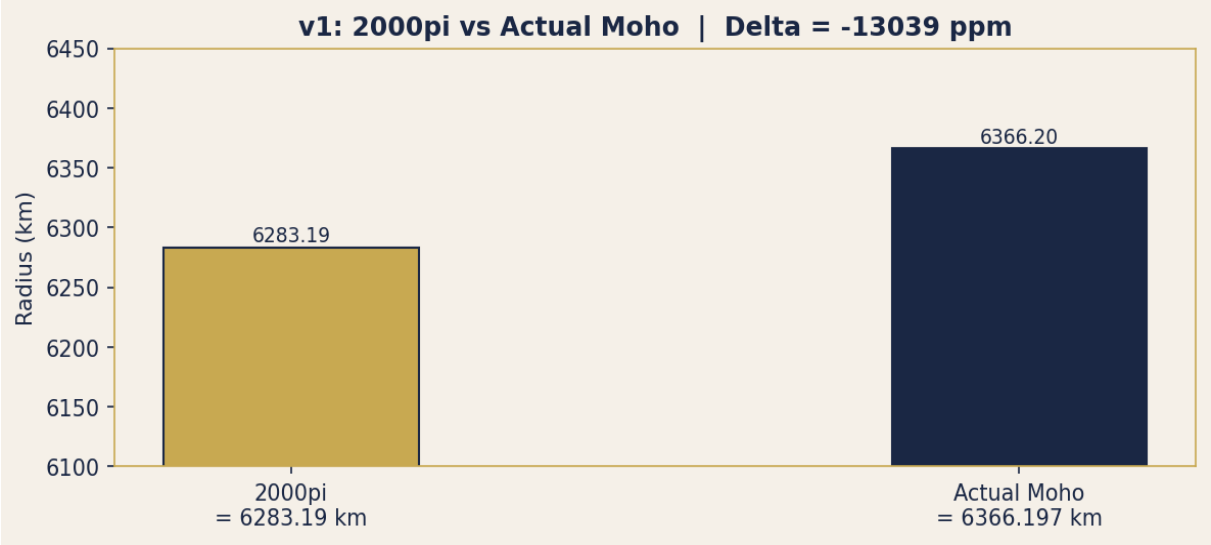

Fig. 1 - v1 derivation: 2000pi = 6283.19 km vs actual Moho 6,366.197 km. Delta = -13039 ppm.

Figure 2: v1 Derivation Steps

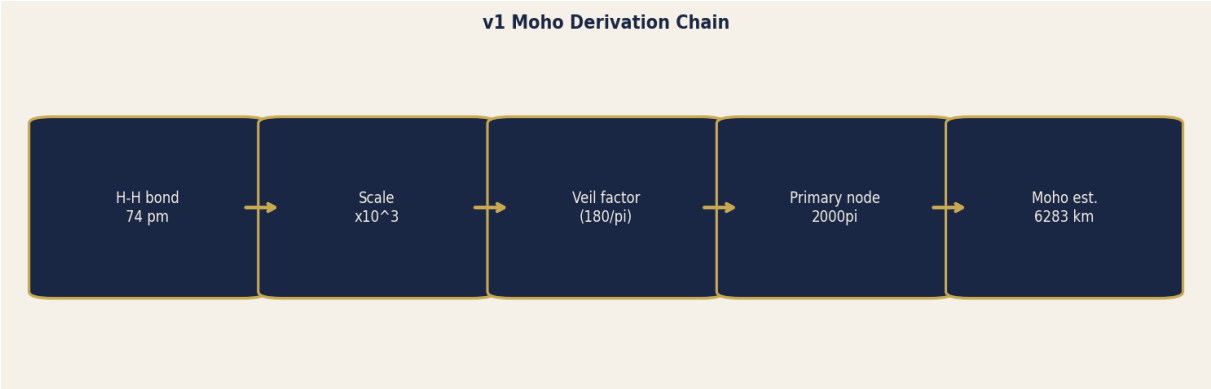

Fig. 2 - Version 1 derivation steps from H-H bond to 2000pi Moho estimate.

Figure 3: v1 vs v2 Precision Comparison

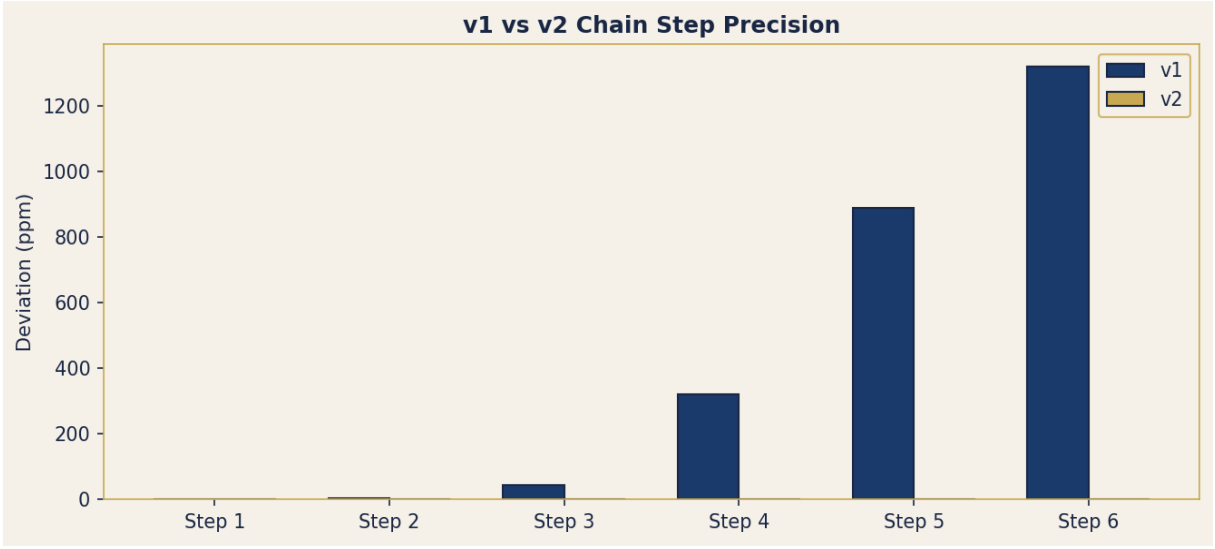

Fig. 3 - v1 (blue) vs v2 (gold) precision at each chain step. v2 reduces final deviation from 1,321 to 2.1 ppm.

Figure 4: Precision Trajectories v1 and v2

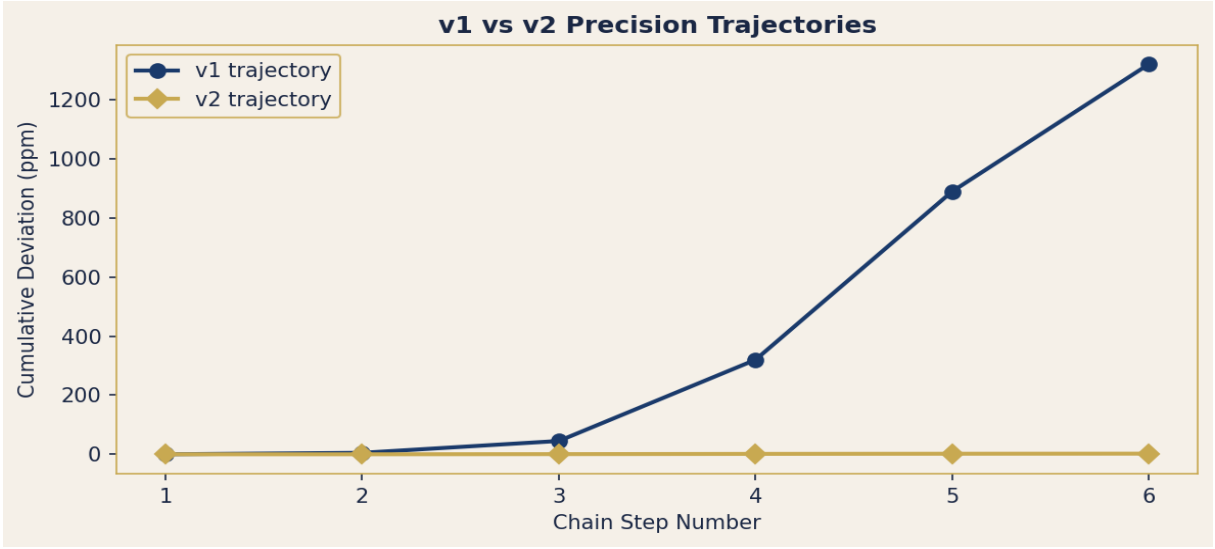

Fig. 4 - Precision trajectory showing v2 remains flat while v1 diverges at later steps.

Propositions

P-MVC1-1

Version 1 established 2000pi as the primary Moho tau-node, accurate to 1,321 ppm. This node is a genuine lattice member, subsequently refined in v2.

P-MVC1-2

The v1 chain identified the veil height as an atmospheric tau-register boundary, a result confirmed and extended in the v2 derivation.
