**Appendix III: Tonotactic constraints in the Small Strong Inductive grammar**

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| **Constraint** | **Weight** | **Penalized sequences** |
| \*[+retroflex,T1] | 5.395 | /ɚ/ in T1 |
| \*[+cons,+voice][−low,T1] | 2.164 | Voiced onset and non-/a/ vowels in T1 |
| \*[+cons,−lab,−cor][+front,T2] | 3.007 | Dorsals before front vowels in T2 |
| \*[+cons,−lab,−cor][+front,T4] | 3.545 | Dorsals before front vowels in T4 |
| \*[+asp,+ant][−high,−low,T3] | 1.673 | /tʰ, tsʰ, tɕʰ/ before /e, o, ə, ɚ/ in T3 |
| \*[−cont,−lab,−cor][+high,T2] | 1.745 | Dorsal stops/affricates before high vowels in T2 |
| \*[−cont,−lab,−cor][+round,T2] | 1.358 | Dorsal stops/affricates before round vowels in T2 |
| \*[+nasal,−lab][T1] | 2.753 | Onset /n/ in T1 |
| \*[+nasal,−lab][−low,−front,T3] | 1.874 | /n/ before /o, u, ə, ɚ/ in T3 |
| \*[+nasal,−lab][−high,−low,T3] | 2.581 | /n/ before /e, o, ə, ɚ/ in T3 |
| \*[+nasal,−lab][−high,−low,−front,T4] | 3.772 | /n, ŋ/ before /o, ə, ɚ/ in T4 |
| \*[−voice,+cont,+ant][−high,T2] | 1.512 | /s, ɕ/ before non-high vowels in T2 |
| \*[+sb][−retroflex,T3] | 4.626 | Onsetless syllable with /ɚ/ in T3 |
| \*[+sb][−high,+back,T2] | 4.762 | Onsetless syllable with /ə, ɚ, e, a/ in T2 |
| \*[+sb][−high,+back,T4] | 2.666 | Onsetless syllable with /ə, ɚ, e, a/ in T4 |
| \*[+sb][+low,T3] | 4.693 | Onsetless syllable with /a/ in T3 |
| \*[+round,T3][−dor] | 4.672 | Rounded vowels in T3 before /n/ |
| \*[+voice][+front,+round,T2] | 3.663 | Voiced onset before /y/ in T2 |
| \*[−voice,−cor][−high,+front,T3] | 2.296 | Voiceless coronals before /e/ in T3 |
| \*[−cont,−dor][+front,+round,T4] | 3.119 | Non-dorsal stops/affricates before /y/ in T4 |
| \*[+cor][−high,+front,T1] | 3.404 | Coronal onsets before /e/ in T1 |
| \*[+cont,+delayed,−lab][−high,+front,T4] | 2.141 | Fricatives before /e/ in T4 |
| \*[+cons,+lab][−high,+back,T4] | 3.13 | Labials before /o/ in T4 |
| \*[+nasal,−lab][−high,+front,T2] | 2.407 | /n/ before /e/ in T2 |
| \*[−asp,+lab][−high,−low,T2] | 2.605 | /p/ before /e, o, ə, ɚ/ in T2 |