

Supplementary materials S2

The NONA format data file (Goloboff 1999), exported from WinClada (Nixon 2002), that supports the cladistic analysis of *Bryanites* and Pacific Platynini follows. To replicate the cladistic analysis, copy all file text from "xread" to the end of the file, paste it into Notepad, and save as a file with ".ss" suffix. This may be imported to WinClada, making certain the Input file dialog box accepts "ALL files." Save the file in WINC format and use Winclada to view character distributions, rerun the analysis, etc.

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xread
''127 49
Lorostema_ogurae_(Jp)
0000000001001010100000000000000011000000011000100000000000100000100010000
0100000001010001010000001000000000100000000000000000000000000000
Lorostema_alutacea_(I+As)
0000001000??1110100000001001000001010010001100?100010000001000010110001001
010000000111000101001000001110100010000000100000000000000000000
Lorostema_bothriophora_(Au+NC+R+Sa+T+V)
0000001001??11000000000100000000011000000001000100000000000000010100010000
01000010010000000000000000110000001000000000000000000000000000000
Lorostema_informalis_(NG)      0000001000??111110000001000000000110-
000001100?1000000000010000101100100000000001001110001000000001100000000100
0000000000100000
Lorostema_interstitialis_(Ph)
0000001000??1110100000001000000001010010001100?100010000001000010110001001
010000000111000100100000100110101010000000100000000000000000000
Lorostema_subnitens_(I+Sunda)
00000010010000111000000?1000001001010010001110?100010000001000010000011000
010000000111000101000000100110000010000000100000000000000000000
Notagonum_angulum_(NG)
000000000000001010000001000000010000000000100?0010000000000000000100110000
10000000000101110000001000000000000110000000100100000
Notagonum_externum_(NG)
0000100000??1100000000000001010100010010000010?101000000000000000100100000
10000000000101010000001001000000000100000000100100000
Notagonum_lafertei_(Au+NC+V)
000010010000000000011001000000010010010000010?101000000000000000000110000
00000000000100010000001000000000000100000000100100000
Notagonum_marginicolle_(Au)
000000000000001011000010000000000000100000101100000000000000000100000000
0000000000000011000000000111000101010000000000100000
Plicagonum_kaindi_(NG)
00000000000000000010100000010100010011100011?100001100101000000000100000
1010000000010100000000000100000011110100000000100001
Violagonum_piceum_(V+Sa)
000000000000000000000010000000000000000010?100001000001000000100010000
11100000000111010001000001000000010000100001110000000
Violagonum_violaceum_(Au+NG+So)
0000100000000000000000000010001000000100000101101001100001000000000010000
10101000000111011001000001000100110011110001100100000
Colpodes_anachoreta_(T)
0000001000000011010010001011100000110011100010?00110000000000000000000100000
00000000000101000000110000100000011110101100100111001
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Colpodes_brunneus_(Jv)
??0110010101010001?1000100000
0010-0000001010100000000000000000101100000111000?0001
Metacolpodes_buchanani_(As)
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10100000000101010001000001000100001010100010100100001
Metacolpodes_buxtoni_(Sa)
0000001000??1011101110000101000011010011000010?1010011000000000000000001110
10100000000101010000000000000000001010100010100100001
Metacolpodes_cyaneus_(NC)
0000000000000000001111001100000011010011100011?1000010000000000000000100000
10100000000101010001000001000100001110100010100100001
Colpodes_eremita_(T)
0000001000000011100010101011000001110011100010?100001000000100000000100000
10100000000100011000010000100000011110100000100110001
Helluocolpodes_helluo_(NG)
00000000000000000000101010000101000010000000101?011011000100000000000101000
11101000000111010000111100000000000110001000000000001
Metacolpodes_hopkinsi_(Sa)
00100010000000000001111001100000011000011100010?1000011000000000000000100000
10100000000111000000000001000000001110100010100100001
Metacolpodes_laetus_(Ph)
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10100000000101010001000001000000001110100010100100000
Metacolpodes_laetus_(V)
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10100000000101010000000001000000001110100010100100000
Colpodes_latus_(Jv)
1010001000??1100000000000000????????????????????????011001010101000000100100000
0000000000010101000000000000000011110000000100111001
Metacolpodes_monticola_(T)
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0010000000010100000000000011100000111010001010010000?
Colpodes_nigratus_(F)
0000000000??1010000010101001011010010000000000?100000000000000000000000100000
01100000000101011000000001000000011110100000010100000
Notagonum_kanak_comb._n._(NC)
00000000000000111100001000????????????????????????0101000000001000000100101000
00100000000100000000001000000000101110000000000111000
Colpodes_n_sp_opacidermis_(F)
0000000000000000000011001001001010010011100011?10000100000000000000000011000
0110000000010100000000000111000011110100010100100001
Metacolpodes_pacificus_(Sa)
0000011000110010001111000111001011010011100011?1000011000000000000000110000
101000000001010100000000100000000111010000100010000?
Colpodes_n_sp_peckorum_(F)
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Metacolpodes_truncatellus_(F)
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1010000000010100000000001000000001110100010100100001
Metacolpodes_truncatellus_(NG)
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Colpodes_xanthocnemus_(F)
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10100000000?0?000000000000000000001110000000100100000
Notagonum_delaruei_(V)
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0000000000010101010000100000000000110000100000000000
Helluocolpodes_discicollis_(V)
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Helluocolpodes_mucronis_(V)
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1000000000011101000000000000000000111000000000000000
Helluocolpodes_multipunctatus_(V)
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1010000000000000100000110010000000001110001000000100000
Helluocolpodes_sinister_(V)
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10100000000????1000001000100000?001110001000000000000
Helluocolpodes_vanemdeni_(V)
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Ctenognathus_otagoensis_(NZ)
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01000000000000001000101100011100101101000001000011101?
Ctenognathus_bidens_(NZ)
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0010-0000001010100001111001000010100100000100111111011
Ctenognathus_parabilis_(NZ)
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0010-100000001010000111100100001001000000010011111101?
Blackburnia_mandibularis_(HI)
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010010000000000000000000010110000001110101100000000000
Blackburnia_posticata_(HI)
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0100100000000000000000000?0110000001110100000011000000
Blackburnia_costata_(HI)
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00001000000000001111000001000000000?010001100011010000
Blackburnia_kahili_(HI) 0000100000100-
1000000000000101000100000000000010000010010001100010000010101100-
000000000000000011110100000001110001101000011010
Bryanites_graeffii_sp._n._(Sa)
????????????????????????????00000100010011000010?0010000100000001?0000001100
000011-110000000000001100000000?111000001100011111101
Bryanites_samoensis_(Sa)
00110000000000????????????00000010010000000000?001000010100000000110001100
0011100110000000000001110000000001000001100000111101
Vitagonum_apterum_(F)
000000000000000000000100001000100010100000100?0000000000001101-
11110011000101-1-0000101010000010000111000001100001000010111101
;
cc + 0.126;
proc /;

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opcode u 0.126;

#
$
;
cn {0 Apical_gonocoxite with_0-1_dorsal_ensiform_setae
with_2_dorsal_ensiform_setae;
{1 Apical_gonocoxite with_1_or_more_dorsal_ensiform_setae
lacking_dorsal_ensiform_setae;
{2 Lateral_ensiform_setae_of_apical_gonocoxite
moderately_long,_0.12_to_0.22_length_gonocoxite
peglike,_up_to_0.12_length_gonocoxite;
{3 Lateral_ensiform_setae_of_apical_gonocoxite
short,_0.8_to_0.12_length_gonocoxite
very_short,_less_than_0.8_length_gonocoxite;
{4 Lateral_ensiform_setae_of_apical_gonocoxite
lateral_ensiform_setae_moderately_elongate
very_long,_broad,_more_than_0.23_length_gonocoxite;
{5 Apical_gonocoxite_tip acuminate rounded;
{6 Apical_gonocoxite triangular subparallel_or_narrow;
{7 Gonocoxal_medial_margin straight_to_evenly_curved
strongly_curved,_angulate;
{8 Lateral_gonocoxal_margin not_expanded,_setae_along_margin
lateral_edge_concave,_scimitarlike;
{9 Bursa_copulatrix symmetrical_or_with_left_lobe with_right_lobe;
{10 Bursa_copulatrix with_medial_band_of_spikelike_microtrichia
band_of_mixed_spikes_and_cristae;
{11 Bursa_copulatrix
with_medial_band_of_spikes_or_mixed_spikes_and_cristae
totally_with_cristae;
{12 Bursal_microtrichia dense sparse_to_glabrous;
{13 Bursal_microtrichia present absent;
{14 Dorsal_bursal_pouch absent present;
{15 Dorsal_bursal_pouch broad,_rounded,_unsclerotized narrow,_keyhole-
shaped;
{16 Dorsal_bursal_pouch unsclerotized sclerotized_with_microsculpture;
{17 Dorsal_bursal_pouch unsclerotized
sclerotized_in_liplike_or_collarlike_shape;
{18 Basal_bursal_pouch absent present;
{19 Basal_bursal_pouch broadly_rounded,_unsclerotized
heavily_sclerotized,_keyhole_or_pocket_shaped;
{20 Bursa_copulatrix subequal_to_1.5_length_common_oviduct 1.6-
2.5_length_common_oviduct;
{21 Bursa_copulatrix less_than_2.5_length_common_oviduct
more_than_2.6_length_common_oviduct;
{22 Spermatheca_reservoir with_12-20_constrictions
more_than_30_constrictions_(was_40_in_L&Z_1998);
{23 Spermathecal_reservoir apical basal,_apical_filament_present;
{24 Vaginal_setae not_pediculate pediculate;
{25 Bursa_copulatrix membranous leathery;
{26 Aedeagal_median_lobe gracile stout;
{27 Aedeagal_median_lobe evenly_curved_euventrally straight;
{28 Aedeagal_median_lobe curved_or_straight recurved;
{29 Aedeagal_median_lobe without_euventral_excavation with_excavation;

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{30 Aedeagal_median_lobe_apex evenly_curved angled_ventrally;
{31 Aedeagal_median_lobe_apex curved_or_angled straight;
{32 Aedeagal_median_lobe_tip tightly_rounded acuminate;
{33 Aedeagal_median_lobe_tip not_downturned downturned;
{34 Aedeagal_median_lobe_tip tightly_rounded_or_acuminate
broad,_bottlenose;
{35 Aedeagal_median_lobe_tip less_than_2_times_long_as_deep
more_than_2_times;
{36 Aedeagal_tip extended_beyond_membranous_base_of_internal_sac_
extremely_short,_not_extended_beyond_sac_insertion;
{37 Aedeagal_median_lobe_tip not_hooked hooked;
{38 Apical_half_of_median_lobe,_euventral_view evenly_narrowed_to_tip
slightly_pinched_before_tip;
{39 Apical_half_of_median_lobe,_euventral_view slightly_pinched_before_tip
attenuate;
{40 Apical_half_of_median_lobe,_euventral_view
evenly_narrowed_to_attenuate strongly_attenuate,_nipplelike;
{41 Aedeagal_median_lobe_shaft evenly_narrowed_from_base
constricted_medially;
{42 Aedeagal_median_lobe_shaft of_moderate_breadth,_euventral_view
narrow,_needle-like;
{43 Aedeagal_median_lobe_shaft normal_depth,_lateral_view slender;
{44 Aedeagal_internal_sac_surface with_only_small,_pale_spicules
with_fields_of_darker,_sclerotized_spicules;
{45 Aedeagal_sac_surface without_large_spines with_1_or_more_large_spines;
{46 Testis_configuration bilateral,_two unilateral,_one_on_right_side;
{47 Ocular_ratio 1.38_to_1.62 more_than_1.63;
{48 Eye_diameter_large_relative_to_depth small,_eyes_protruding,_bugeyed;
{49 Labral_apex straight_medially broadly,_shallowly_emarginate;
{50 Labral_apex straight_to_shallowly_emarginate
broadly,_moderately_emarginate;
{51 Frons_microsculpture isodiametric,_shiny granulate;
{52 Frons_microsculpture isodiametric,_shiny less_developed_isodiametric;
{53 Frons_microsculpture present reduced,_surface_shiny;
{54 Neck_with_strong_dorsal_impression with_slight_impression;
{55 Pedicel_with_1_outer_apical_seta with_outer_seta_plus_1_or_2_others;
{56 Mandibles moderate,_acuminate elongate;
{57 Mentum_tooth triangular_to_rounded truncate_to_slightly_bifid;
{58 Pronotal_marginal_gutter broad,_edge_upturned very_broad;
{59 Pronotal_marginal_gutter broad,_edge_upturned moderate,_edge_upturned;
{60 Pronotal_marginal_gutter broad_to_moderate,_edge_upturned
moderate,_edge_beaded;
{61 Pronotal_marginal_gutter broad,_moderate,_edge_upturned_or_beaded
narrow,_edge_upturned;
{62 Anterior_pronotal_setae present absent;
{63 Anterior_pronotal_seta not_directly_at_margin_of_lateral_explanation
set_directly_on_margin;
{64 Posterior_pronotal_seta present absent;
{65 Pronotal_basal_bead complete effaced_medially;
{66 Pronotal_basal_bead present_at_least_laterally
effaced_medially_and_laterally;
{67 Pronotal_median_base smooth_or_longitudinally_wrinkled punctate;
{68 Pronotal_basolateral_margin straight expanded_posteriorly;
{69 Pronotal_laterobasal_depressions smooth punctate;

{70 Pronotal_hind_angles sharp obtuse-rounded;
{71 Pronotal_hind_angles angled_to_angulate-rounded
rounded,_nearly_obsolete;
{72 Pronotal_basolateral_margins sinuate_before_hind_angles
straight_or_convex;
{73 Pronotal_disc_microsculpture transverse_mesh granulate;
{74 Pronotal_disc_microsculpture transverse_mesh reduced_transverse_mesh;
{75 Pronotal_laterobasal_depression_microsculpture transverse_mesh
isodiametric_mesh;
{76 Prosternal_process not_margined dorsal_triangle_on_posterior_face;
{77 Prosternal_process unmargined_ventrally ventral_margin_carinate;
{78 Pronotal_hind_seta at_hind_angle 0.02-
0.21_median_pronotal_length_before_angle;
{79 Dorsal_elytral_setae 3-6 absent;
{80 Dorsal_elytral_setae not_in_foveae,_or_setae_absent set_in_foveae;
{81 Elytral_subapical_situation present
reduced,_margin_straight_or_slightly_sinuate;
{82 Elytral_subapical_situation evident obsolete;
{83 Elytral_apical_margin smooth with_irregular_granulate_serrations;
{84 Elytral_subapical_situation_smooth
with_irregular_granulate_serrations;
{85 Sutural_apex rounded,_non-denticulate short_tooth_present;
{86 Sutural_apex non-denticulate_or_with_short_tooth with_longer_spine;
{87 Elytral_subapical_tooth absent_present_as_prominence;
{88 Elytral_subapical_tooth absent_or_present_as_prominence tooth_present;
{89 Elytral_striae smooth._continuous punctate_at_least_partially;
{90 Elytral_strial_punctures fine moderate,_expanding_striae_laterally;
{91 Elytral_strial_punctures even_throughout_length
strongest_in_basal_1/2_to_2/3;
{92 Elytral_intervals without_costae
weakly_rounded_costae_on_intervals_1,_5,_7;
{93 Elytral_intervals slightly_convex_to_costate nearly_flat;
{94 Elytral_intervals slightly_convex_to_costate broadly_convex;
{95 Humeri broad slightly_narrowed;
{96 Humeral_angle rounded_tightly_rounded_or_angulate;
{97 Humeri rounded_to_tightly_rounded angulate;
{98 Lateral_elytral_setae 16-36 8-16;
{99 Elytral_microsculpture transverse_mesh_2-3X_broad_as_long
fine_microlines_without_mesh;
{100 Elytral_microsculpture transverse_mesh_or_lines
transverse_isodiametric_mesh;
{101 Elytral_microsculpture transverse isodiametric;
{102 Elytral_microsculpture transverse_or_isodiametric granulate;
{103 Elytral_microsculpture present reduced_but_traceable;
{104 Dorsal_body_surface glabrous_except_for_fixed_macrosetae
with_fine_pelage_of_fine_microsetae;
{105 Apical_female_abdominal_segment 2_setae_each_side
bilaterally_4_for_a_total_of_8;
{106 Profemur 0-1_anteroventral_setae 2_or_more_anteroventral_setae;
{107 Mesofemur 2_anteroventral_setae 3-7_anteroventral_setae;
{108 Metacoxa with_3_setae inner_seta_absent,_outer_2_present;
{109 Metafemur 1_or_more_dorsoapical_setae dorsoapically_glabrous;
{110 Metatarsi gracile broadened_apically;
{111 Metatarsi gracile_or_broadened_apically broad_over_all_of_length;

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{112 Ventral_tarsal_vesititure sparse_on_MT2-4 thicker,_densely_packed;
{113 Ventral_tarsal_vesititure sparse_to_dense_with_central_space
densely_setose,_central_space_reduced;
{114 Metatarsomeres_1-3 moderate_inner_and_outer_sulci
narrow_inner_and_outer_sulci;
{115 Metatarsomeres_1-3 inner_and_outer_sulci_present
outer_sulcus_fine,_inner_obsolete;
{116 Metatarsomeres_1-3 sulci_present_or_absent
sulci_so_deep_to_produce_medially_carinate_tarsomeres;
{117 Metatarsomere_4_outer_lobe less_than_length_tarsal_base 1.1-
1.75_length_tarsal_base;
{118 Metatarsomere_4_outer_lobe 1-1.5_times_length_inner_lobe
more_than_1.5_length_inner_lobe;
{119 MT5_ventral_surface apparently_glabrous_to_setae_1/2_depth_of_MT5
with_4-6_setae_subequal_in_length_to_depth_of_MT5;
{120 MT5_ventral_surface apparently_glabrous_or_with_4-6_setae with_8-
18_setae;
{121 MT4_apical_setae set_apically set_subapically;
{122 Flight_wing_ratio 2.9-5.0 1.4-2.3;
{123 Flight_wing_ratio 1.4-5.0 0.4-1.1;
{124 Flight_wings full_or_brachypterous,_but_vestige_broad
brachypterous,_vestige_a_long_costal_whip;
{125 Flight_wings full_or_brachypterous,_WR_more_than_0.4
vestigial,_extending_slightly_beyond_metanotum;
{126 Body_length 4.6-10.9_mm 10.9-17.0_mm;

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;
tread 'wha' (0(((9((26(33(6(((35(19(36(34 37 38))))(25(((10(27(24((20(30
31))(((21 22)(15 17))(16 28)))))))(13 18))(29 32))))((14 23)(11 12))) (7
8))))((48(46 47))(39(40 41))))(43(42(44 45))))((2 3)(5(1 4)))) *
((9((26(33(6(((35(19(36(34 37 38))))(25(((10(27(24((20(30 31))((17(15(21
22)))(16 28)))))))(13 18))(29 32))))((14 23)(11 12))(7 8))))((48(46
47))(39(40 41))))(43(42(44 45)))(0(2(3(5(1 4)))))) * (0(((9(((48(46
47))(39(40 41)))(26(33(6(((35(19((37 38)(34 36))))(25(((10(27(24((20(30
31))((17(15(21 22)))(16 28)))))))(13 18))(29 32))))((14 23)(11 12))(7
8)))))))(43(42(44 45)))(2(3(5(1 4)))))) * (0((2((9(((48(46 47))(39(40
41)))(26(33(6(((36((38(34 37))(19 35)))(32(29(25((10(27(24((20(30
31))((17(15(21 22)))(16 28)))))))(13 18))))))((14 23)(11 12))(7
8)))))))(43(42(44 45)))(3(5(1 4)))))) * (0((2((9(((48(46 47))(39(40
41)))(26(33(6(((36((38(34 37))(19 35)))(29(32(25((10(27(24((20(30
31))((17(15(21 22)))(16 28)))))))(13 18))))))((14 23)(11 12))(7
8)))))))(43(42(44 45)))(3(5(1 4)))))) * (0(((9(((48(46 47))(39(40
41)))(26(33(6(((36((38(34 37))(19 35)))(32(29(25((10(27(24((20(30
31))((21 22)(15 17))(16 28)))))))(13 18))))))((14 23)(11 12))(7
8)))))))(43(42(44 45)))(2(3(5(1 4)))))) * (0((2((9(((48(46 47))(39(40
41)))(26(33(6(((36((38(34 37))(19 35)))(29(32(25((10(27(24((20(30
31))((21 22)(15 17))(16 28)))))))(13 18))))))((14 23)(11 12))(7
8)))))))(43(42(44 45)))(3(5(1 4)))))) * (0(((9(((48(46 47))(39(40
41)))(26(33(6(((36((38(34 37))(19 35)))(32(29(25((10(27(24((20(30
31))((21 22)(15 17))(16 28)))))))(13 18))))))((14 23)(11 12))(7
8)))))))(43(42(44 45)))(2(3(5(1 4)))))) * (0((2((9(((48(46 47))(39(40
41)))(26(33(6(((36((38(34 37))(19 35)))(29(32(25((10(27(24((20(30

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31)) ((21 22) (15 17)) (16 28)))) (13 18)))) ((14 23) (11 12)) (7
8)))) (43(42(44 45)))) (3(5(1 4)))) * (0((9((48(46 47)) (39(40
41)) (26(33(6(((36((38(34 37)) (19 35)) (29(32(25((10(27(24((20(30
31)) ((17(15(21 22)) (16 28)))) (13 18)))) ((14 23) (11 12)) (7
8)))) (43(42(44 45))) (2 3) (5(1 4)))) * (0((9((48(46 47)) (39(40
41)) (26(33(6(((36((38(34 37)) (19 35)) (29(32(25((10(27(24((20(30
31)) ((17(15(21 22)) (16 28)))) (13 18)))) ((14 23) (11 12)) (7
8)))) (43(42(44 45))) (2(3(5(1 4)))) * (0((2((9((48(46 47)) (39(40
41)) (26(33(6(((35(19((37 38) (34 36))) (25((10(27(24((20(30 31)) ((21
22) (15 17)) (16 28)))) (13 18)) (29 32)))) ((14 23) (11 12)) (7
8)))) (43(42(44 45))) (3(5(1 4)))) * (0((9((48(46 47)) (39(40
41)) (26(33(6(((35(19((37 38) (34 36))) (25((10(27(24((20(30 31)) ((21
22) (15 17)) (16 28)))) (13 18)) (29 32)))) ((14 23) (11 12)) (7
8)))) (43(42(44 45))) (2 3) (5(1 4)))) * (0((2((9((48(46 47)) (39(40
41)) (26(33(6(((35(19((37 38) (34 36))) (25((10(27(24((20(30
31)) ((17(15(21 22)) (16 28)))) (13 18)) (29 32)))) ((14 23) (11 12)) (7
8)))) (43(42(44 45))) (3(5(1 4)))) * (0((9((26(33(6(((35(19(38(34 36
37)))) (25((10(27(24((20(30 31)) ((17(15(21 22)) (16 28)))) (13 18)) (29
32)))) ((14 23) (11 12)) (7 8)))) ((48(46 47)) (39(40 41)))) (43(42(44
45))) (2(3(5(1 4)))) * (0((9((26(33(6(((35(19(36(34 37
38)))) (25((10(27(24((20(30 31)) ((21 22) (15 17)) (16 28)))) (13 18)) (29
32)))) ((14 23) (11 12)) (7 8)))) ((48(46 47)) (39(40 41)))) (43(42(44
45))) (2(3(5(1 4)))) * (0((2((9((26(33(6(((35(19(36(34 37
38)))) (25((10(27(24((20(30 31)) ((21 22) (15 17)) (16 28)))) (13 18)) (29
32)))) ((14 23) (11 12)) (7 8)))) ((48(46 47)) (39(40 41)))) (43(42(44
45)))) (3(5(1 4)))) * (0((2((9((26(33(6(((35(19(38(34 36
37)))) (25((10(27(24((20(30 31)) ((21 22) (15 17)) (16 28)))) (13 18)) (29
32)))) ((14 23) (11 12)) (7 8)))) ((48(46 47)) (39(40 41)))) (43(42(44
45)))) (3(5(1 4)))) * (0((2((9((26(33(6(((35(19(36(34 37
38)))) (25((10(27(24((20(30 31)) ((17(15(21 22)) (16 28)))) (13 18)) (29
32)))) ((14 23) (11 12)) (7 8)))) ((48(46 47)) (39(40 41)))) (43(42(44
45)))) (3(5(1 4)))) * (0((9((48(46 47)) (39(40
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8)))) (43(42(44 45))) (2 3) (5(1 4)))) * (0((9((26(33(6(((35(19(36(34
37 38)))) (25((10(27(24((20(30 31)) ((17(15(21 22)) (16 28)))) (13 18)) (29
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45))) (2 3) (5(1 4)))) * (0((9((48(46 47)) (39(40
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8)))) (43(42(44 45))) (2 3) (5(1 4)))) * (0((9((26(33(6(((14 23) (11
12)) ((36((38(34 37)) (19 35)) (29(32(25((10(27(24((20(30 31)) ((21 22) (15
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45))) (2(3(5(1 4)))) * (0((9((26(33(6(((35(19(38(34 36
37)))) (25((10(27(24((20(30 31)) ((21 22) (15 17)) (16 28)))) (13 18)) (29
32)))) ((14 23) (11 12)) (7 8)))) ((48(46 47)) (39(40 41)))) (43(42(44
45))) (2 3) (5(1 4)))) * (0((9((26(33(6(((25((10(27(24(16((28((20(30
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4)))) * (0((9((48(46 47)) (39(40 41)) (26(33(6(((36((38(34 37)) (19
35)) (29(32(25((10(27(24(16((28((20(30 31)) (21 22)) (15 17)))) (13
18)))) ((14 23) (11 12)) (7 8)))) (43(42(44 45))) (2 3) (5(1 4)))) *
(0((9((26(33(6(((35(19(36(34 37 38)))) (25((10(27(24(16((28((20(30
31)) (21 22)) (15 17)))) (13 18)) (29 32)))) ((14 23) (11 12)) (7

8))))) ((48(46 47)) (39(40 41)))) (43(42(44 45)))) (3(5(1 4)))) *
(0(((9((26(33(6(((35(19(36(34 37 38)))) (25(((10(27(24((20(30
31)) ((17(15(21 22)) (16 28)))))) (13 18)) (29 32)))) ((14 23) (11 12))) (7
8))))) ((48(46 47)) (39(40 41)))) (43(42(44 45))) (2(3(5(1 4)))))) * (0 2
3(43(42(44 45))) (5(1 4)) (9((26(33(6(((19 34 35 36 37 38) (25 29
32((10(27(24(15 16 17 28(20(30 31)) (21 22)))))) (13 18)))) ((14 23) (11
12))) (7 8))))) ((48(46 47)) (39(40 41))))))
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