

Plethysms $H \otimes \{\lambda\}$ in $SO^*(8)$ for $\lambda \vdash \leq 4$ to weight 9

$H \otimes \{2\}$

[2(0)]	+ [2(1)]	+ 2[2(2)]	+ 2[2(21)]	+ 3[2(2 ²)]
+ 2[2(3)]	+ 2[2(31)]	+ 3[2(32)]	+ 3[2(4)]	+ 4[2(41)]
+ 6[2(42)]	+ 4[2(43)]	+ 5[2(4 ²)]	+ 3[2(5)]	+ 4[2(51)]
+ 6[2(52)]	+ 4[2(53)]	+ 5[2(54)]	+ 4[2(6)]	+ 6[2(61)]
+ 9[2(62)]	+ 8[2(63)]	+ 4[2(7)]	+ 6[2(71)]	+ 9[2(72)]
+ 5[2(8)]	+ 8[2(81)]	+ 5[2(9)]		

$H \otimes \{1^2\}$

[2(1)]	+ 2[2(1 ²)]	+ [2(2)]	+ 2[2(21)]	+ 2[2(3)]
+ 4[2(31)]	+ 3[2(32)]	+ 4[2(3 ²)]	+ 2[2(4)]	+ 4[2(41)]
+ 3[2(42)]	+ 4[2(43)]	+ 3[2(5)]	+ 6[2(51)]	+ 6[2(52)]
+ 8[2(53)]	+ 5[2(54)]	+ 3[2(6)]	+ 6[2(61)]	+ 6[2(62)]
+ 8[2(63)]	+ 4[2(7)]	+ 8[2(71)]	+ 9[2(72)]	+ 4[2(8)]
+ 8[2(81)]	+ 5[2(9)]			

H^2

[2(0)]	+ 2[2(1)]	+ 2[2(1 ²)]	+ 3[2(2)]	+ 4[2(21)]
+ 3[2(2 ²)]	+ 4[2(3)]	+ 6[2(31)]	+ 6[2(32)]	+ 4[2(3 ²)]
+ 5[2(4)]	+ 8[2(41)]	+ 9[2(42)]	+ 8[2(43)]	+ 5[2(4 ²)]
+ 6[2(5)]	+ 10[2(51)]	+ 12[2(52)]	+ 12[2(53)]	+ 10[2(54)]
+ 7[2(6)]	+ 12[2(61)]	+ 15[2(62)]	+ 16[2(63)]	+ 8[2(7)]
+ 14[2(71)]	+ 18[2(72)]	+ 9[2(8)]	+ 16[2(81)]	+ 10[2(9)]

$H \otimes \{3\}$

$[3(0)]$	$+ [3; (1)]$	$+ 2[3; (2)]$	$+ 2[3; (21)]$	$+ [3; (21^2)]$
$+ 4[3; (2^2)]$	$+ 4[3; (2^2 1)]$	$+ 4[3; (2^3)]$	$+ 3[3; (3)]$	$+ 4[3; (31)]$
$+ 2[3; (31^2)]$	$+ 8[3; (32)]$	$+ 8[3; (321)]$	$+ 8[3; (32^2)]$	$+ 5[3; (3^2)]$
$+ 5[3; (3^2 1)]$	$+ 5[3; (3^2 2)]$	$+ [3; (3^3)]$	$+ 4[3; (4)]$	$+ 7[3; (41)]$
$+ 5[3; (41^2)]$	$+ 15[3; (42)]$	$+ 18[3; (421)]$	$+ 17[3; (42^2)]$	$+ 15[3; (43)]$
$+ 20[3; (431)]$	$+ 20[3; (432)]$	$+ 14[3; (4^2)]$	$+ 22[3; (4^2 1)]$	$+ 5[3; (5)]$
$+ 10[3; (51)]$	$+ 8[3; (51^2)]$	$+ 22[3; (52)]$	$+ 28[3; (521)]$	$+ 26[3; (52^2)]$
$+ 26[3; (53)]$	$+ 37[3; (531)]$	$+ 30[3; (54)]$	$+ 7[3; (6)]$	$+ 15[3; (61)]$
$+ 12[3; (61^2)]$	$+ 33[3; (62)]$	$+ 42[3; (621)]$	$+ 44[3; (63)]$	$+ 8[3; (7)]$
$+ 19[3; (71)]$	$+ 17[3; (71^2)]$	$+ 43[3; (72)]$	$+ 10[3; (8)]$	$+ 25[3; (81)]$
$+ 12[3; (9)]$				

 $H \otimes \{21\}$

$[3(1)]$	$+ 2[3(1^2)]$	$+ [3(1^3)]$	$+ 2[3(2)]$	$+ 5[3(21)]$
$+ 4[3(21^2)]$	$+ 5[3(2^2)]$	$+ 6[3(2^2 1)]$	$+ 3[3(2^3)]$	$+ 3[3(3)]$
$+ 9[3(31)]$	$+ 9[3(31^2)]$	$+ 13[3(32)]$	$+ 18[3(321)]$	$+ 11[3(32^2)]$
$+ 11[3(3^2)]$	$+ 17[3(3^2 1)]$	$+ 14[3(3^2 2)]$	$+ 6[3(3^3)]$	$+ 5[3(4)]$
$+ 15[3(41)]$	$+ 15[3(41^2)]$	$+ 25[3(42)]$	$+ 34[3(421)]$	$+ 23[3(42^2)]$
$+ 30[3(43)]$	$+ 45[3(431)]$	$+ 41[3(432)]$	$+ 24[3(4^2)]$	$+ 36[3(4^2 1)]$
$+ 7[3(5)]$	$+ 22[3(51)]$	$+ 23[3(51^2)]$	$+ 40[3(52)]$	$+ 56[3(521)]$
$+ 40[3(52^2)]$	$+ 55[3(53)]$	$+ 85[3(531)]$	$+ 59[3(54)]$	$+ 9[3(6)]$
$+ 30[3(61)]$	$+ 33[3(61^2)]$	$+ 58[3(62)]$	$+ 84[3(621)]$	$+ 86[3(63)]$
$+ 12[3(7)]$	$+ 40[3(71)]$	$+ 44[3(71^2)]$	$+ 80[3(72)]$	$+ 15[3(8)]$
$+ 51[3(81)]$	$+ 18[3(9)]$			

 $H \otimes \{1^3\}$

$[3(1^2)]$	$+ 2[3(1^3)]$	$+ 2[3(21)]$	$+ 4[3(21^2)]$	$+ [3(2^2)]$
$+ 2[3(2^2 1)]$	$+ [3(3)]$	$+ 5[3(31)]$	$+ 7[3(31^2)]$	$+ 6[3(32)]$
$+ 8[3(321)]$	$+ 3[3(32^2)]$	$+ 8[3(3^2)]$	$+ 11[3(3^2 1)]$	$+ 9[3(3^2 2)]$
$+ 7[3(3^3)]$	$+ [3(4)]$	$+ 7[3(41)]$	$+ 11[3(41^2)]$	$+ 10[3(42)]$
$+ 16[3(421)]$	$+ 7[3(42^2)]$	$+ 15[3(43)]$	$+ 25[3(431)]$	$+ 20[3(432)]$
$+ 8[3(4^2)]$	$+ 16[3(4^2 1)]$	$+ 2[3(5)]$	$+ 11[3(51)]$	$+ 16[3(51^2)]$
$+ 18[3(52)]$	$+ 28[3(521)]$	$+ 15[3(52^2)]$	$+ 29[3(53)]$	$+ 48[3(531)]$
$+ 27[3(54)]$	$+ 3[3(6)]$	$+ 15[3(61)]$	$+ 21[3(61^2)]$	$+ 26[3(62)]$
$+ 40[3(621)]$	$+ 44[3(63)]$	$+ 4[3(7)]$	$+ 20[3(71)]$	$+ 28[3(71^2)]$
$+ 37[3(72)]$	$+ 5[3(8)]$	$+ 25[3(81)]$	$+ 7[3(9)]$	

H^3

[3(0)]	+ 3[3(1)]	+ 5[3(1 ²)]	+ 4[3(1 ³)]	+ 6[3(2)]
+ 14[3(21)]	+ 13[3(21 ²)]	+ 15[3(2 ²)]	+ 18[3(2 ² 1)]	+ 10[3(2 ³)]
+ 10[3(3)]	+ 27[3(31)]	+ 27[3(31 ²)]	+ 40[3(32)]	+ 52[3(321)]
+ 33[3(32 ²)]	+ 35[3(3 ²)]	+ 50[3(3 ² 1)]	+ 42[3(3 ² 2)]	+ 20[3(3 ³)]
+ 15[3(4)]	+ 44[3(41)]	+ 46[3(41 ²)]	+ 75[3(42)]	+ 102[3(421)]
+ 70[3(42 ²)]	+ 90[3(43)]	+ 135[3(431)]	+ 122[3(432)]	+ 70[3(4 ²)]
+ 110[3(4 ² 1)]	+ 21[3(5)]	+ 65[3(51)]	+ 70[3(51 ²)]	+ 120[3(52)]
+ 168[3(521)]	+ 121[3(52 ²)]	+ 165[3(53)]	+ 255[3(531)]	+ 175[3(54)]
+ 28[3(6)]	+ 90[3(61)]	+ 99[3(61 ²)]	+ 175[3(62)]	+ 250[3(621)]
+ 260[3(63)]	+ 36[3(7)]	+ 119[3(71)]	+ 133[3(71 ²)]	+ 240[3(72)]
+ 45[3(8)]	+ 152[3(81)]	+ 55[3(9)]		

 $H \otimes \{4\}$

[4; (0)]	+ [4; (1)]	+ 2[4; (2)]	+ 2[4; (21)]	+ [4; (21 ²)]
+ 4[4; (2 ²)]	+ 4[4; (2 ² 1)]	+ [4; (2 ² 1 ²)]	+ 6[4; (2 ³)]	+ 6[4; (2 ³ 1)]
+ 7[4; (2 ⁴)]	+ 3[4; (3)]	+ 4[4; (31)]	+ 3[4; (31 ²)]	+ 2[4; (31 ³)]
+ 9[4; (32)]	+ 13[4; (321)]	+ 9[4; (321 ²)]	+ 17[4; (32 ²)]	+ 18[4; (32 ² 1)]
+ 14[4; (32 ³)]	+ 7[4; (3 ²)]	+ 15[4; (3 ² 1)]	+ 15[4; (3 ² 1 ²)]	+ 20[4; (3 ² 2)]
+ 24[4; (3 ² 21)]	+ 11[4; (3 ³)]	+ 5[4; (4)]	+ 9[4; (41)]	+ 7[4; (41 ²)]
+ 3[4; (41 ³)]	+ 21[4; (42)]	+ 32[4; (421)]	+ 21[4; (421 ²)]	+ 44[4; (42 ²)]
+ 49[4; (42 ² 1)]	+ 26[4; (43)]	+ 51[4; (431)]	+ 42[4; (431 ²)]	+ 79[4; (432)]
+ 28[4; (4 ²)]	+ 56[4; (4 ² 1)]	+ 6[4; (5)]	+ 13[4; (51)]	+ 14[4; (51 ²)]
+ 9[4; (51 ³)]	+ 33[4; (52)]	+ 61[4; (521)]	+ 48[4; (521 ²)]	+ 81[4; (52 ²)]
+ 49[4; (53)]	+ 115[4; (531)]	+ 64[4; (54)]	+ 9[4; (6)]	+ 22[4; (61)]
+ 24[4; (61 ²)]	+ 14[4; (61 ³)]	+ 56[4; (62)]	+ 105[4; (621)]	+ 93[4; (63)]
+ 11[4; (7)]	+ 30[4; (71)]	+ 38[4; (71 ²)]	+ 80[4; (72)]	+ 15[4; (8)]
+ 43[4; (81)]	+ 18[4; (9)]			

 $H \otimes \{31\}$

[4; (1)]	+ 2[4; (1 ²)]	+ [4; (1 ³)]	+ 2[4; (2)]	+ 5[4; (21)]
+ 5[4; (21 ²)]	+ 3[4; (21 ³)]	+ 6[4; (2 ²)]	+ 12[4; (2 ² 1)]	+ 11[4; (2 ² 1 ²)]
+ 11[4; (2 ³)]	+ 13[4; (2 ³ 1)]	+ 5[4; (2 ⁴)]	+ 4[4; (3)]	+ 12[4; (31)]
+ 14[4; (31 ²)]	+ 8[4; (31 ³)]	+ 21[4; (32)]	+ 41[4; (321)]	+ 34[4; (321 ²)]
+ 43[4; (32 ²)]	+ 52[4; (32 ² 1)]	+ 30[4; (32 ³)]	+ 23[4; (3 ²)]	+ 48[4; (3 ² 1)]
+ 39[4; (3 ² 1 ²)]	+ 65[4; (3 ² 2)]	+ 79[4; (3 ² 21)]	+ 38[4; (3 ³)]	+ 6[4; (4)]
+ 21[4; (41)]	+ 30[4; (41 ²)]	+ 21[4; (41 ³)]	+ 44[4; (42)]	+ 97[4; (421)]
+ 87[4; (421 ²)]	+ 106[4; (42 ²)]	+ 131[4; (42 ² 1)]	+ 65[4; (43)]	+ 161[4; (431)]
+ 151[4; (431 ²)]	+ 228[4(432)]	+ 57[4(4 ²)]	+ 164[4(4 ² 1)]	+ 10[4(5)]
+ 36[4(51)]	+ 53[4(51 ²)]	+ 38[4(51 ³)]	+ 83[4(52)]	+ 186[4(521)]
+ 168[4(521 ²)]	+ 216[4(52 ²)]	+ 140[4(53)]	+ 355[4(531)]	+ 175[4(54)]
+ 14[4(6)]	+ 54[4(61)]	+ 87[4(61 ²)]	+ 68[4(61 ³)]	+ 134[4(62)]
+ 318[4(621)]	+ 246[4(63)]	+ 20[4(7)]	+ 80[4(71)]	+ 132[4(71 ²)]
+ 207[4(72)]	+ 26[4(8)]	+ 110[4(81)]	+ 35[4(9)]	

$H \otimes \{2^2\}$

$[4(1^3)]$	$+ 2[4(1^4)]$	$+ [4(2)]$	$+ 3[4(21)]$	$+ 4[4(21^2)]$
$+ 3[4(21^3)]$	$+ 6[4(2^2)]$	$+ 8[4(2^2 1)]$	$+ 3[4(2^2 1^2)]$	$+ 8[4(2^3)]$
$+ 7[4(2^3 1)]$	$+ 7[4(2^4)]$	$+ [4(3)]$	$+ 5[4(31)]$	$+ 11[4(31^2)]$
$+ 11[4(31^3)]$	$+ 12[4(32)]$	$+ 28[4(321)]$	$+ 25[4(321^2)]$	$+ 26[4(32^2)]$
$+ 29[4(32^2 1)]$	$+ 16[4(32^3)]$	$+ 8[4(3^2)]$	$+ 33[4(3^2 1)]$	$+ 42[4(3^2 1^2)]$
$+ 38[4(3^2 2)]$	$+ 55[4(3^2 21)]$	$+ 27[4(3^3)]$	$+ 3[4(4)]$	$+ 12[4(41)]$
$+ 21[4(41^2)]$	$+ 18[4(41^3)]$	$+ 30[4(42)]$	$+ 65[4(421)]$	$+ 55[4(421^2)]$
$+ 71[4(42^2)]$	$+ 82[4(42^2 1)]$	$+ 39[4(43)]$	$+ 107[4(431)]$	$+ 109[4(431^2)]$
$+ 149[4(432)]$	$+ 45[4(4^2)]$	$+ 108[4(4^2 1)]$	$+ 4[4(5)]$	$+ 19[4(51)]$
$+ 39[4(51^2)]$	$+ 37[4(51^3)]$	$+ 50[4(52)]$	$+ 125[4(521)]$	$+ 120[4(521^2)]$
$+ 135[4(52^2)]$	$+ 79[4(53)]$	$+ 240[4(531)]$	$+ 111[4(54)]$	$+ 7[4(6)]$
$+ 32[4(61)]$	$+ 61[4(61^2)]$	$+ 54[4(61^3)]$	$+ 87[4(62)]$	$+ 213[4(621)]$
$+ 153[4(63)]$	$+ 9[4(7)]$	$+ 45[4(71)]$	$+ 94[4(71^2)]$	$+ 127[4(72)]$
$+ 14[4(8)]$	$+ 67[4(81)]$	$+ 17[4(9)]$		

 $H \otimes \{21^2\}$

$[4(1^2)]$	$+ 2[4(1^3)]$	$+ [4(1^4)]$	$+ 3[4(21)]$	$+ 8[4(21^2)]$
$+ 7[4(21^3)]$	$+ 3[4(2^2)]$	$+ 11[4(2^2 1)]$	$+ 13[4(2^2 1^2)]$	$+ 6[4(2^3)]$
$+ 9[4(2^3 1)]$	$+ 2[4(2^4)]$	$+ [4(3)]$	$+ 8[4(31)]$	$+ 18[4(31^2)]$
$+ 16[4(31^3)]$	$+ 15[4(32)]$	$+ 41[4(321)]$	$+ 42[4(321^2)]$	$+ 35[4(32^2)]$
$+ 44[4(32^2 1)]$	$+ 19[4(32^3)]$	$+ 20[4(3^2)]$	$+ 52[4(3^2 1)]$	$+ 50[4(3^2 1^2)]$
$+ 67[4(3^2 2)]$	$+ 83[4(3^2 21)]$	$+ 46[4(3^3)]$	$+ 2[4(4)]$	$+ 15[4(41)]$
$+ 36[4(41^2)]$	$+ 35[4(41^3)]$	$+ 33[4(42)]$	$+ 96[4(421)]$	$+ 103[4(421^2)]$
$+ 89[4(42^2)]$	$+ 115[4(42^2 1)]$	$+ 55[4(43)]$	$+ 164[4(431)]$	$+ 175[4(431^2)]$
$+ 220[4(432)]$	$+ 48[4(4^2)]$	$+ 160[4(4^2 1)]$	$+ 4[4(5)]$	$+ 27[4(51)]$
$+ 62[4(51^2)]$	$+ 59[4(51^3)]$	$+ 66[4(52)]$	$+ 186[4(521)]$	$+ 194[4(521^2)]$
$+ 190[4(52^2)]$	$+ 123[4(53)]$	$+ 365[4(531)]$	$+ 155[4(54)]$	$+ 6[4(6)]$
$+ 42[4(61)]$	$+ 100[4(61^2)]$	$+ 98[4(61^3)]$	$+ 109[4(62)]$	$+ 317[4(621)]$
$+ 218[4(63)]$	$+ 10[4(7)]$	$+ 64[4(71)]$	$+ 148[4(71^2)]$	$+ 174[4(72)]$
$+ 14[4(8)]$	$+ 90[4(81)]$	$+ 20[4(9)]$		

 $H \otimes \{1^4\}$

$[4(1^3)]$	$+ 2[4(1^4)]$	$+ 2[4(21^2)]$	$+ 4[4(21^3)]$	$+ [4(2^2)]$
$+ 3[4(2^2 1)]$	$+ 3[4(2^2 1^2)]$	$+ 3[4(2^3)]$	$+ 2[4(2^3 1)]$	$+ [4(2^4)]$
$+ [4(31)]$	$+ 7[4(31^2)]$	$+ 11[4(31^3)]$	$+ 3[4(32)]$	$+ 13[4(321)]$
$+ 17[4(321^2)]$	$+ 9[4(32^2)]$	$+ 11[4(32^2 1)]$	$+ 3[4(32^3)]$	$+ 4[4(3^2)]$
$+ 19[4(3^2 1)]$	$+ 26[4(3^2 1^2)]$	$+ 19[4(3^2 2)]$	$+ 28[4(3^2 21)]$	$+ 19[4(3^3)]$
$+ 3[4(41)]$	$+ 13[4(41^2)]$	$+ 17[4(41^3)]$	$+ 9[4(42)]$	$+ 31[4(421)]$
$+ 35[4(421^2)]$	$+ 27[4(42^2)]$	$+ 33[4(42^2 1)]$	$+ 16[4(43)]$	$+ 57[4(431)]$
$+ 66[4(431^2)]$	$+ 71[4(432)]$	$+ 17[4(4^2)]$	$+ 52[4(4^2 1)]$	$+ 5[4(51)]$
$+ 23[4(51^2)]$	$+ 31[4(51^3)]$	$+ 16[4(52)]$	$+ 61[4(521)]$	$+ 74[4(521^2)]$
$+ 55[4(52^2)]$	$+ 32[4(53)]$	$+ 125[4(531)]$	$+ 44[4(54)]$	$+ [4(6)]$
$+ 10[4(61)]$	$+ 35[4(61^2)]$	$+ 44[4(61^3)]$	$+ 31[4(62)]$	$+ 104[4(621)]$
$+ 65[4(63)]$	$+ [4(7)]$	$+ 15[4(71)]$	$+ 54[4(71^2)]$	$+ 47[4(72)]$
$+ 2[4(8)]$	$+ 23[4(81)]$	$+ 3[4(9)]$		

H^4

[4(0)]	+ 4[4(1)]	+ 9[4(1 ²)]	+ 12[4(1 ³)]	+ 9[4(1 ⁴)]
+ 10[4(2)]	+ 32[4(21)]	+ 50[4(21 ²)]	+ 40[4(21 ³)]	+ 44[4(2 ²)]
+ 92[4(2 ² 1)]	+ 82[4(2 ² 1 ²)]	+ 76[4(2 ³)]	+ 88[4(2 ³ 1)]	+ 43[4(2 ⁴)]
+ 20[4(3)]	+ 75[4(31)]	+ 128[4(31 ²)]	+ 107[4(31 ³)]	+ 144[4(32)]
+ 328[4(321)]	+ 304[4(321 ²)]	+ 312[4(32 ²)]	+ 375[4(32 ² 1)]	+ 196[4(32 ³)]
+ 156[4(3 ²)]	+ 400[4(3 ² 1)]	+ 392[4(3 ² 1 ²)]	+ 511[4(3 ² 2)]	+ 648[4(3 ² 21)]
+ 336[4(3 ³)]	+ 35[4(4)]	+ 144[4(41)]	+ 260[4(41 ²)]	+ 224[4(41 ³)]
+ 321[4(42)]	+ 772[4(421)]	+ 736[4(421 ²)]	+ 798[4(42 ²)]	+ 984[4(42 ² 1)]
+ 480[4(43)]	+ 1297[4(431)]	+ 1304[4(431 ²)]	+ 1792[4(432)]	+ 450[4(4 ²)]
+ 1296[4(4 ² 1)]	+ 56[4(5)]	+ 245[4(51)]	+ 460[4(51 ²)]	+ 405[4(51 ³)]
+ 596[4(52)]	+ 1488[4(521)]	+ 1448[4(521 ²)]	+ 1624[4(52 ²)]	+ 1028[4(53)]
+ 2880[4(531)]	+ 1320[4(54)]	+ 84[4(6)]	+ 384[4(61)]	+ 742[4(61 ²)]
+ 664[4(61 ³)]	+ 990[4(62)]	+ 2540[4(621)]	+ 1856[4(63)]	+ 120[4(7)]
+ 567[4(71)]	+ 1120[4(71 ²)]	+ 1524[4(72)]	+ 165[4(8)]	+ 800[4(81)]
+ 220[4(9)]				