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[> # HI-NUM Keiko 22 CG analysis by H.E:
[> restart : with(plots) :
[> CP := [red, yellow, blue, green, magenta, "Purple", "Orange", "DarkGreen", "SkyBlue",
" Crimson"];
CP := [red, yellow, blue, green, magenta, "Purple", "Orange", "DarkGreen", "SkyBlue",
" Crimson"]
[> T := s:

```

(1)

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> FP := [ T, sin(T), cos(T), sin(sin(T)), cos(cos(T)), sin(cos(T)), sin(tan(T/5)),
cos(tan(T/5)) ];
FP := [ s, sin(s), cos(s), sin(sin(s)), cos(cos(s)), sin(cos(s)), sin(tan(1/5 s)),
cos(tan(1/5 s)) ]

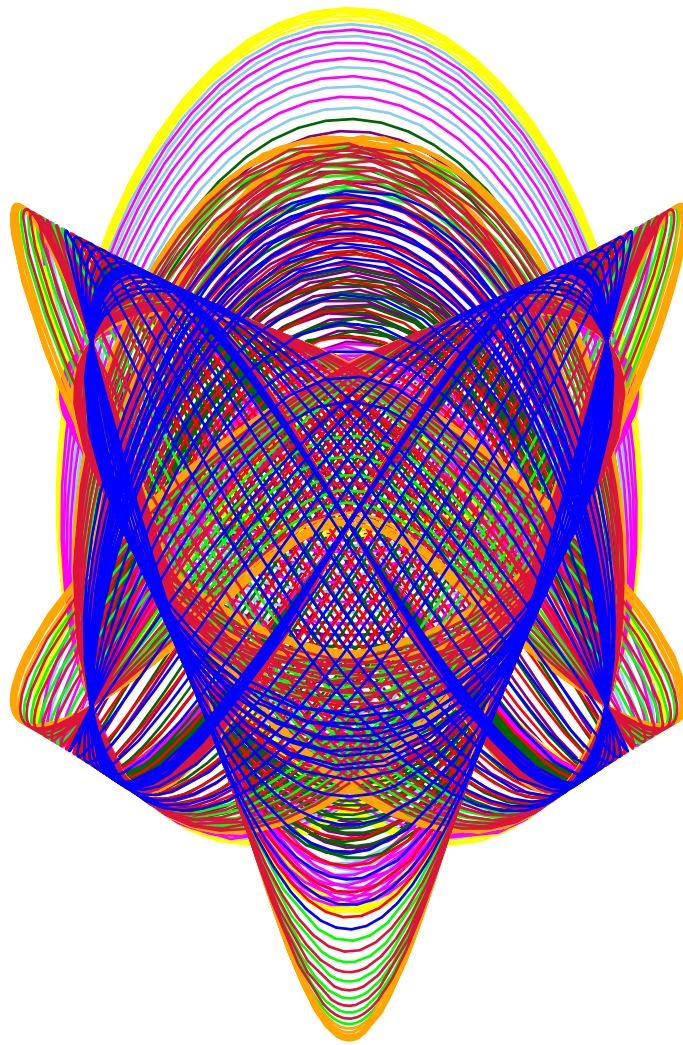
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(2)

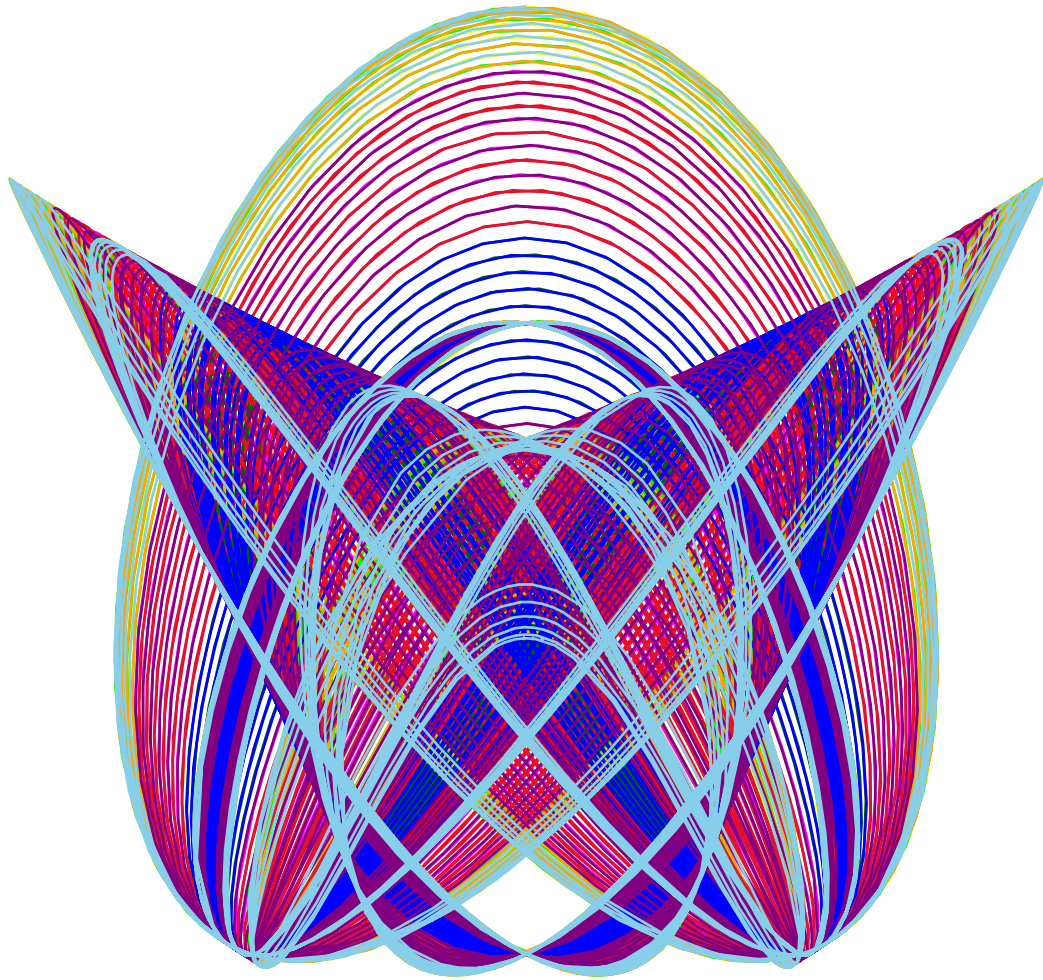
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[> ?color;
[> for k from 5001 to 5100 do X1 := k : E := k mod 103 : h1 := E mod 8 + 1 : c := 0 :
for x from 4 to 1 by -1 do Rx := X1 mod x^x : H || x := (X1 - Rx) / x^x + 1 : X1 := Rx :
od: for ds from 1 to 10 do c := c + 1 : EQX := sin(2 * E * (H || 1) * s) + sin(E * (H || 1)
* s) * cos(E * (H || 3) * s) * cos(E * (H || 2) * s) * FP[h1] : EQY := cos(3 * E * (H || 1) * s)
+ cos(E * (H || 2) * s) * cos(E * (H || 3) * s) * cos(E * (H || 1) * s) * FP[h1] : NG || ds
:= plot([EQX, EQY, s = (ds - 1) * 2 * Pi / 10 .. ds * 2 * Pi / 10], axes = none, numpoints = 300,
scaling = constrained, color = CP[ ((ds + 6 * h1 + 2 * c) mod 10) + 1 ]) : od: HG || c
:= seq(NG || j, j = 1 .. 10) : print(display(HG || c)) : print(Hi[h1] - Equ[X = EQX]) :
print(Hi[k] - Equ[Y = EQY]) : od:

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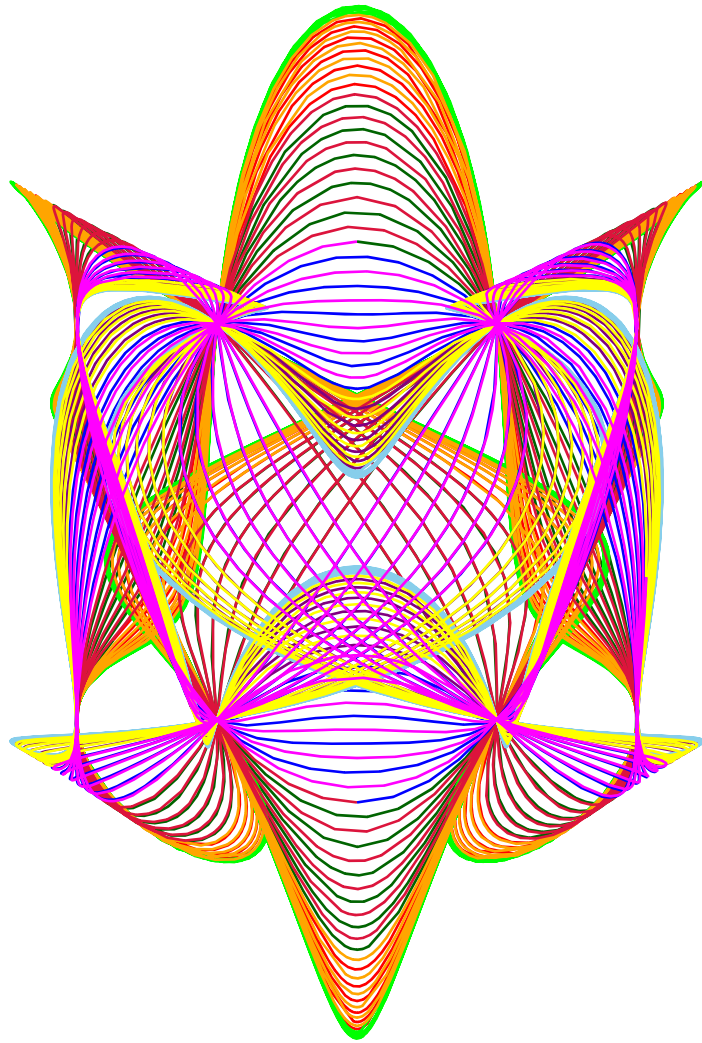


$$Hi_2 - Equ_X = \sin(342s) + \sin(171s) \cos(342s) \cos(57s) \sin(s)$$
$$Hi_{5001} - Equ_Y = \cos(513s) + \cos(57s) \cos(342s) \cos(171s) \sin(s)$$

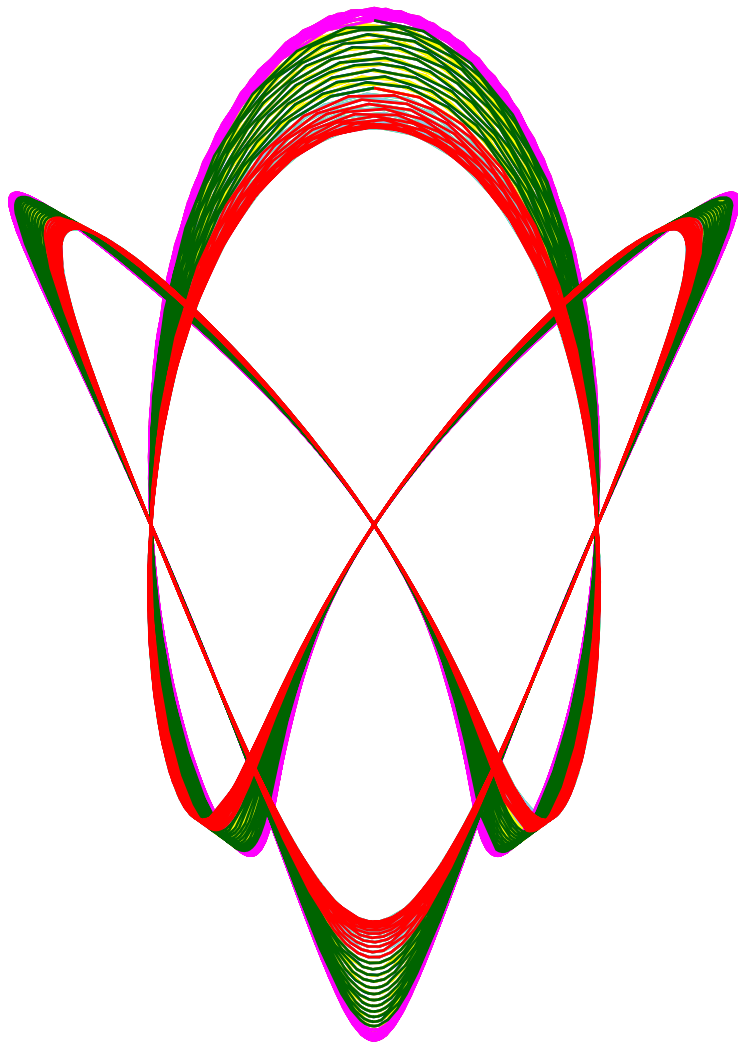


$$Hi_3 - Equ_X = \sin(464s) + \sin(232s) \cos(348s) \cos(58s) \cos(s)$$

$$Hi_{5002} - Equ_Y = \cos(696s) + \cos(58s) \cos(348s) \cos(232s) \cos(s)$$

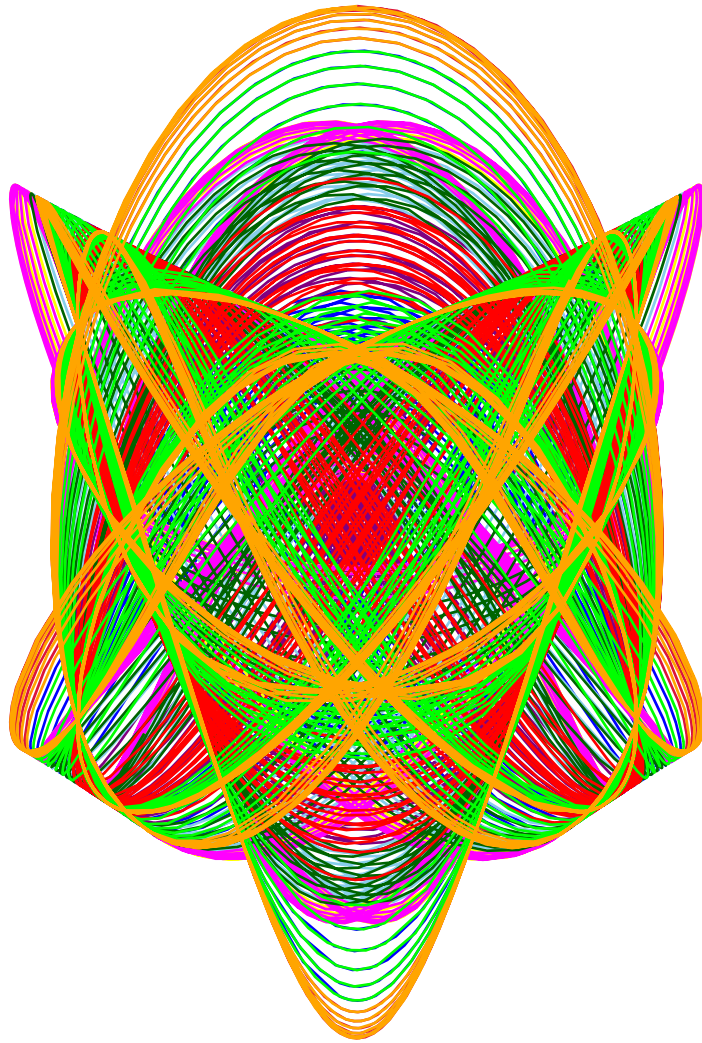


$$Hi_4 - Equ_{X = \sin(118s) + \sin(59s) \cos(354s) \cos(118s) \sin(\sin(s))}$$
$$Hi_{5003} - Equ_{Y = \cos(177s) + \cos(118s) \cos(354s) \cos(59s) \sin(\sin(s))}$$

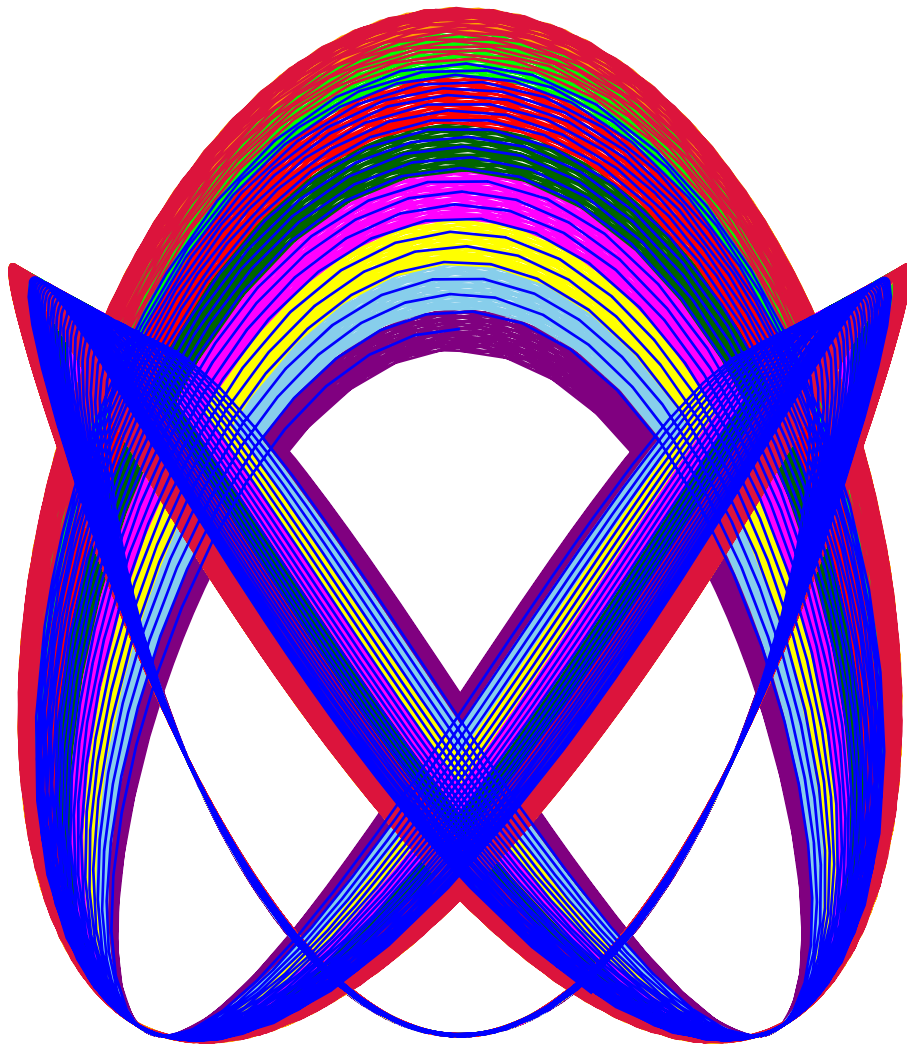


$$Hi_5 - Equ_X = \sin(240s) + \sin(120s) \cos(360s) \cos(120s) \cos(\cos(s))$$

$$Hi_{5004} - Equ_Y = \cos(360s) + \cos(120s)^2 \cos(360s) \cos(\cos(s))$$



$$Hi_6 - Equ_{X = \sin(366s) + \sin(183s) \cos(366s) \cos(122s) \sin(\cos(s))}$$
$$Hi_{5005} - Equ_{Y = \cos(549s) + \cos(122s) \cos(366s) \cos(183s) \sin(\cos(s))}$$

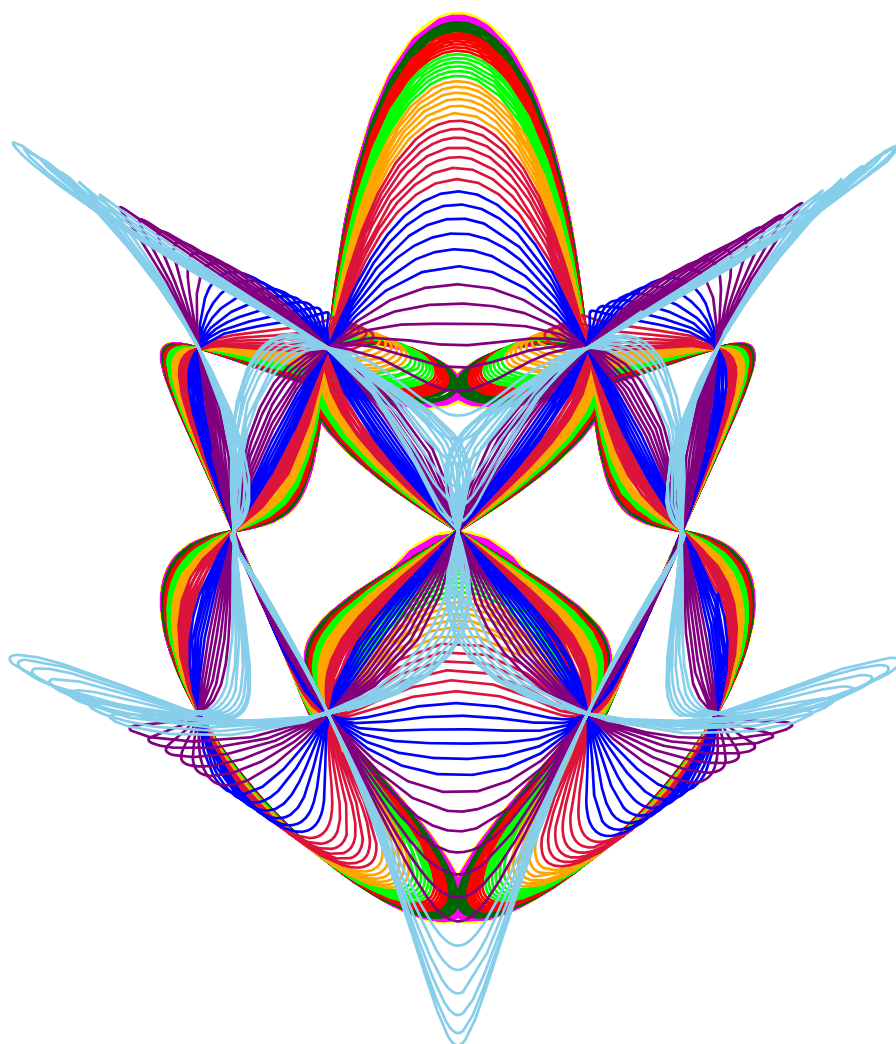


$Hi_7 - Equ$

$$X = \sin(496s) + \sin(248s) \cos(372s) \cos(124s) \sin\left(\tan\left(\frac{1}{5}s\right)\right)$$

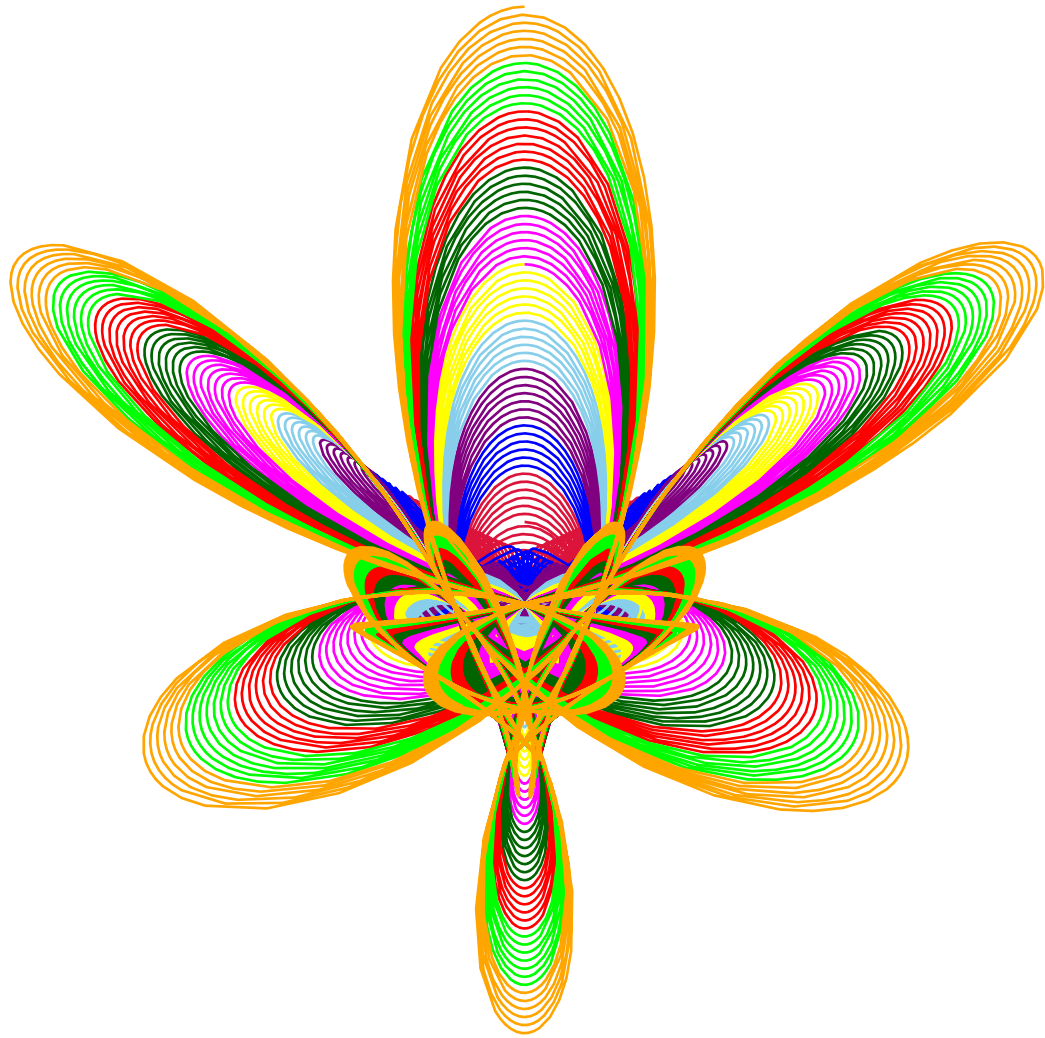
$Hi_{5006} - Equ$

$$Y = \cos(744s) + \cos(124s) \cos(372s) \cos(248s) \sin\left(\tan\left(\frac{1}{5}s\right)\right)$$

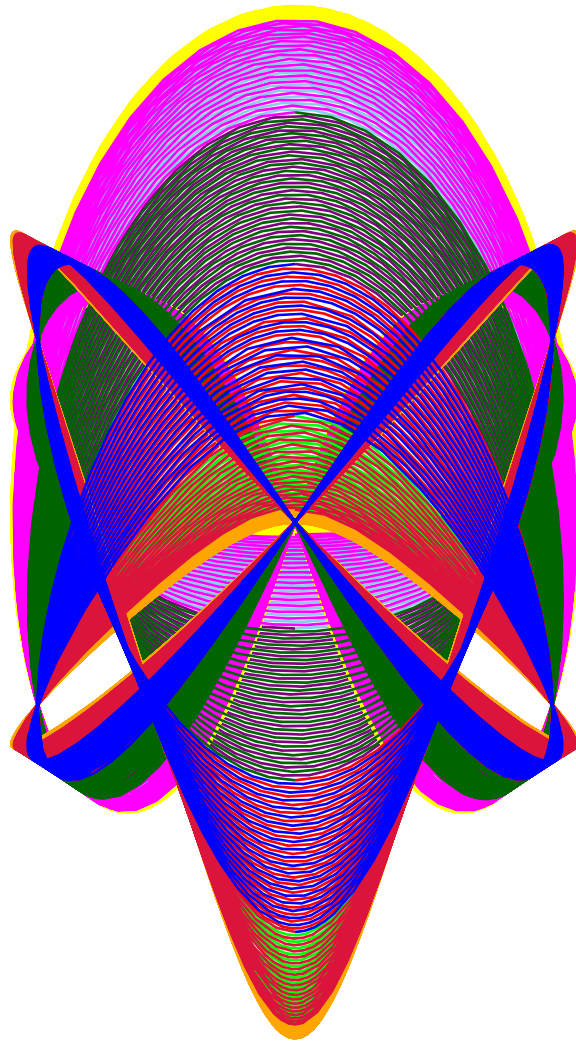


$$Hi_8 - Equ \quad X = \sin(126s) + \sin(63s) \cos(378s) \cos(189s) \cos\left(\tan\left(\frac{1}{5}s\right)\right)$$

$$Hi_{5007} - Equ \quad Y = \cos(189s) + \cos(189s) \cos(378s) \cos(63s) \cos\left(\tan\left(\frac{1}{5}s\right)\right)$$

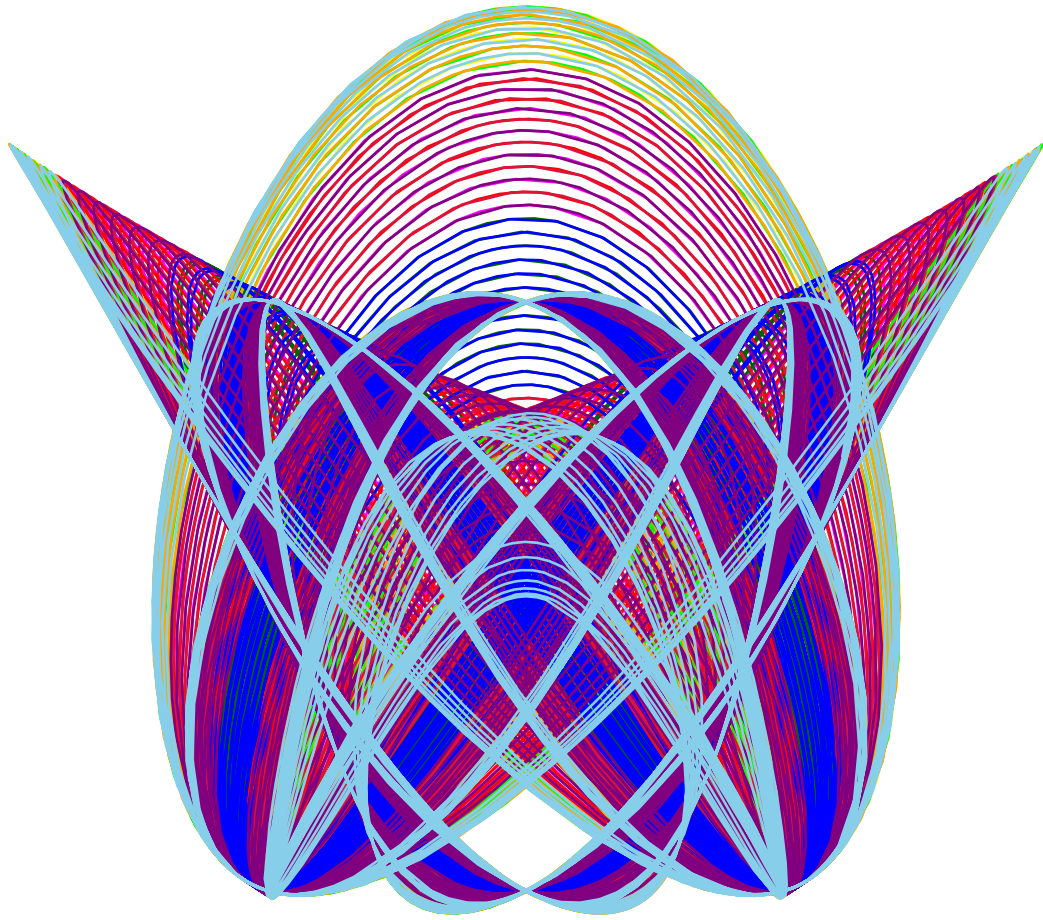


$$Hi_1 - Equ_X = \sin(256.s) + \sin(128.s) \cos(384.s) \cos(192.s) s$$
$$Hi_{5008} - Equ_Y = \cos(384.s) + \cos(192.s) \cos(384.s) \cos(128.s) s$$

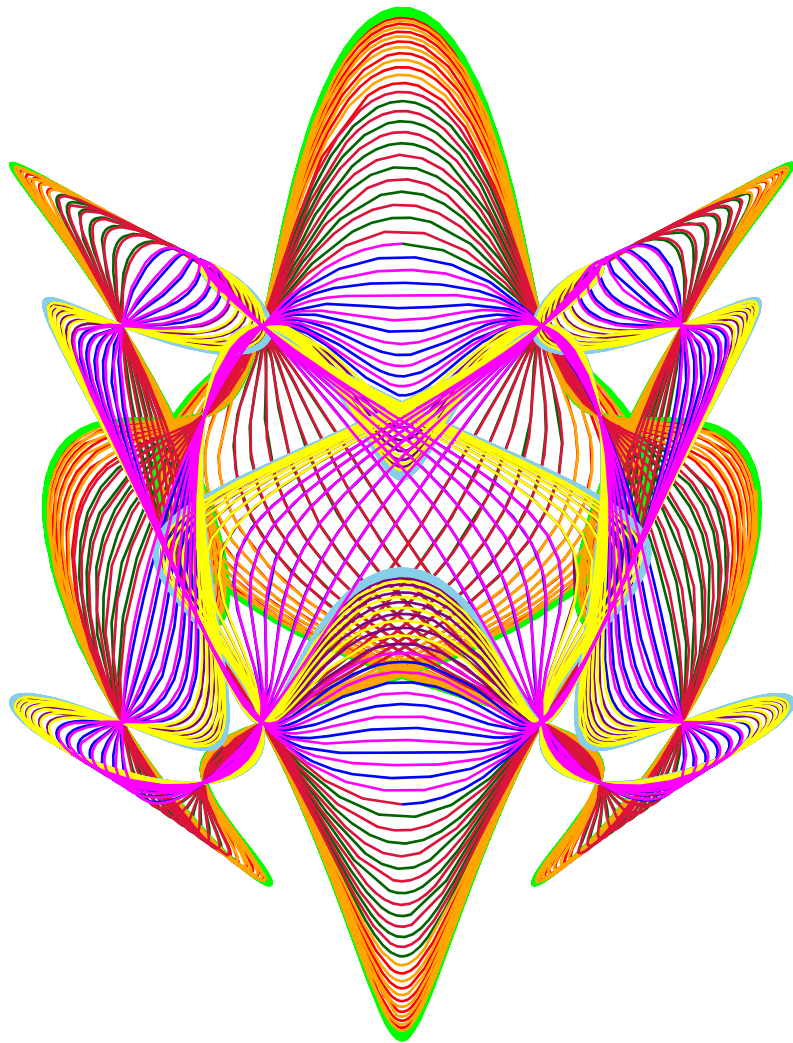


$$Hi_2 - Equ_X = \sin(390.s) + \sin(195.s) \cos(390.s) \cos(195.s) \sin(s)$$

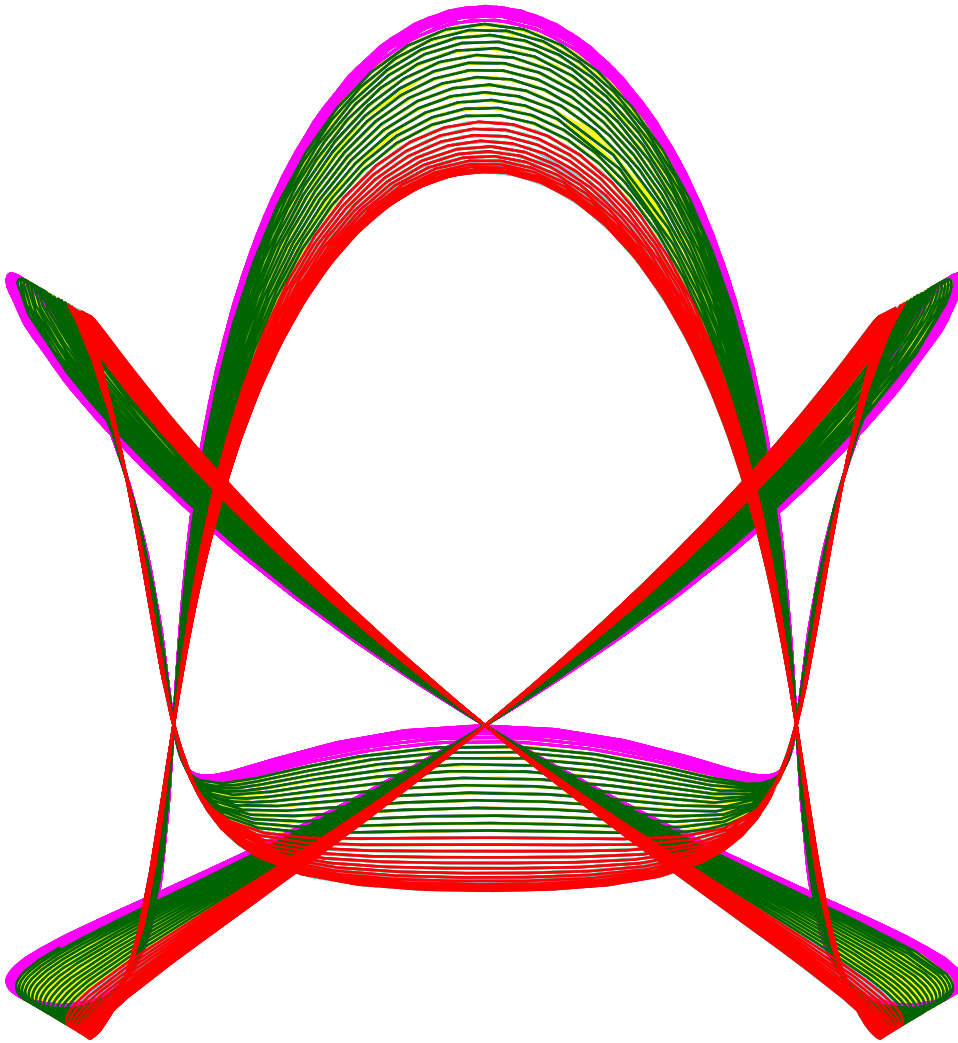
$$Hi_{5009} - Equ_Y = \cos(585.s) + \cos(195.s)^2 \cos(390.s) \sin(s)$$



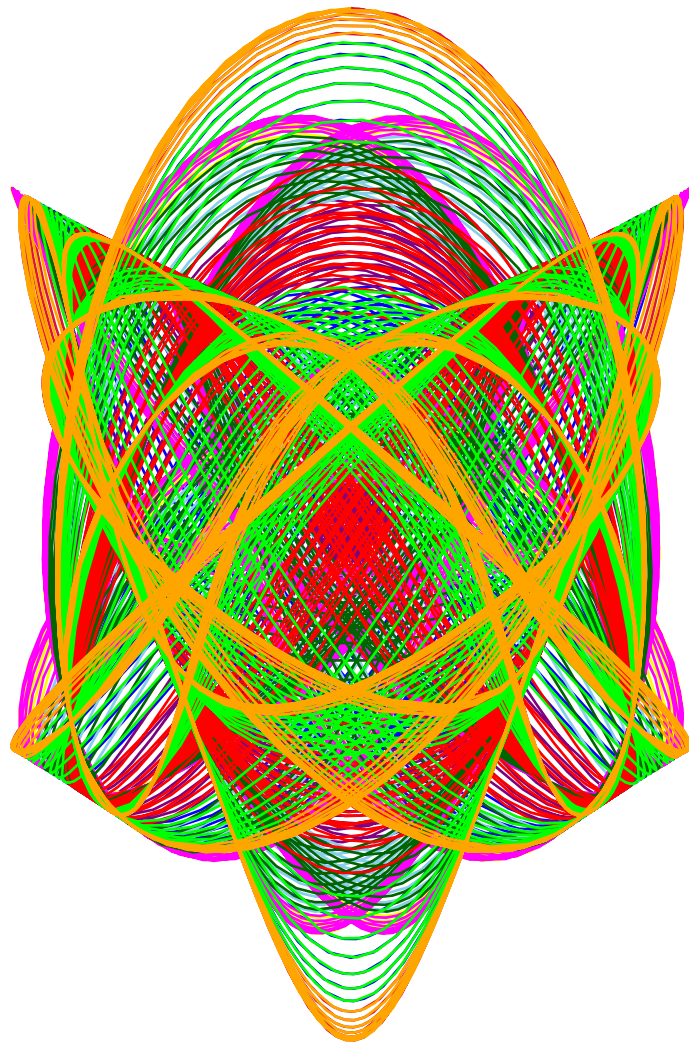
$$Hi_3 - Equ_x = \sin(528.s) + \sin(264.s) \cos(396.s) \cos(198.s) \cos(s)$$
$$Hi_{5010} - Equ_y = \cos(792.s) + \cos(198.s) \cos(396.s) \cos(264.s) \cos(s)$$



$$Hi_4 - Equ_x = \sin(134s) + \sin(67s) \cos(402s) \cos(268s) \sin(\sin(s))$$
$$Hi_{5011} - Equ_y = \cos(201s) + \cos(268s) \cos(402s) \cos(67s) \sin(\sin(s))$$



$$Hi_5 - Equ_X = \sin(272.s) + \sin(136.s) \cos(408.s) \cos(272.s) \cos(\cos(s))$$
$$Hi_{5012} - Equ_Y = \cos(408.s) + \cos(272.s) \cos(408.s) \cos(136.s) \cos(\cos(s))$$

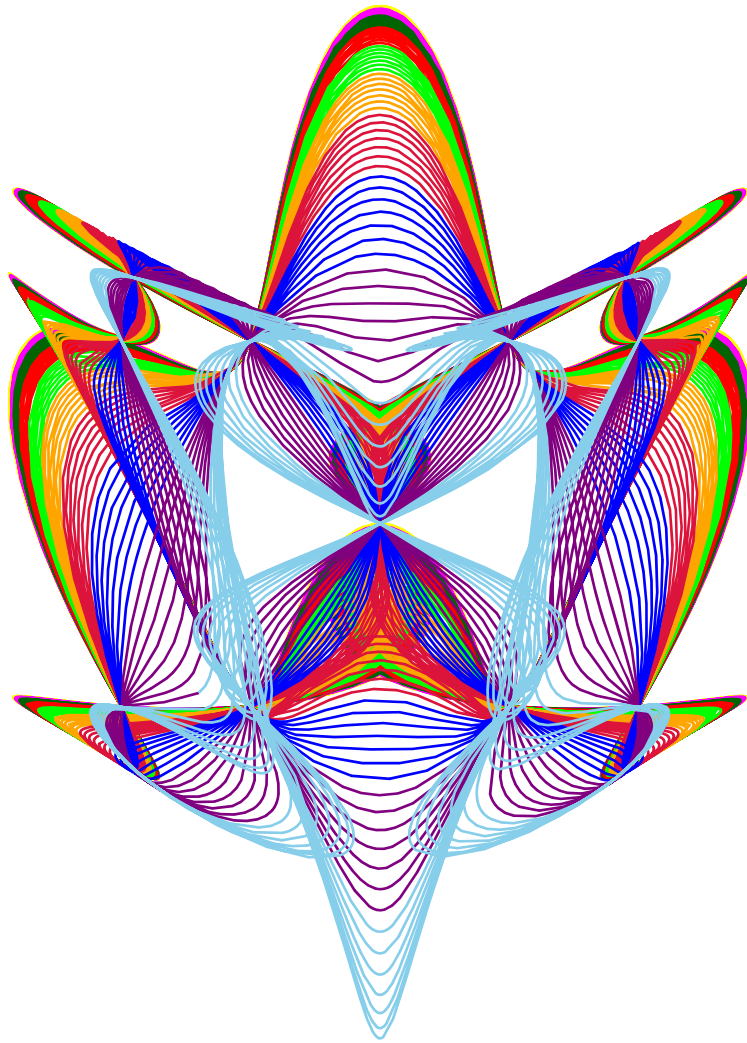


$$Hi_6 - Equ_X = \sin(414.s) + \sin(207.s) \cos(414.s) \cos(276.s) \sin(\cos(s))$$
$$Hi_{5013} - Equ_Y = \cos(621.s) + \cos(276.s) \cos(414.s) \cos(207.s) \sin(\cos(s))$$



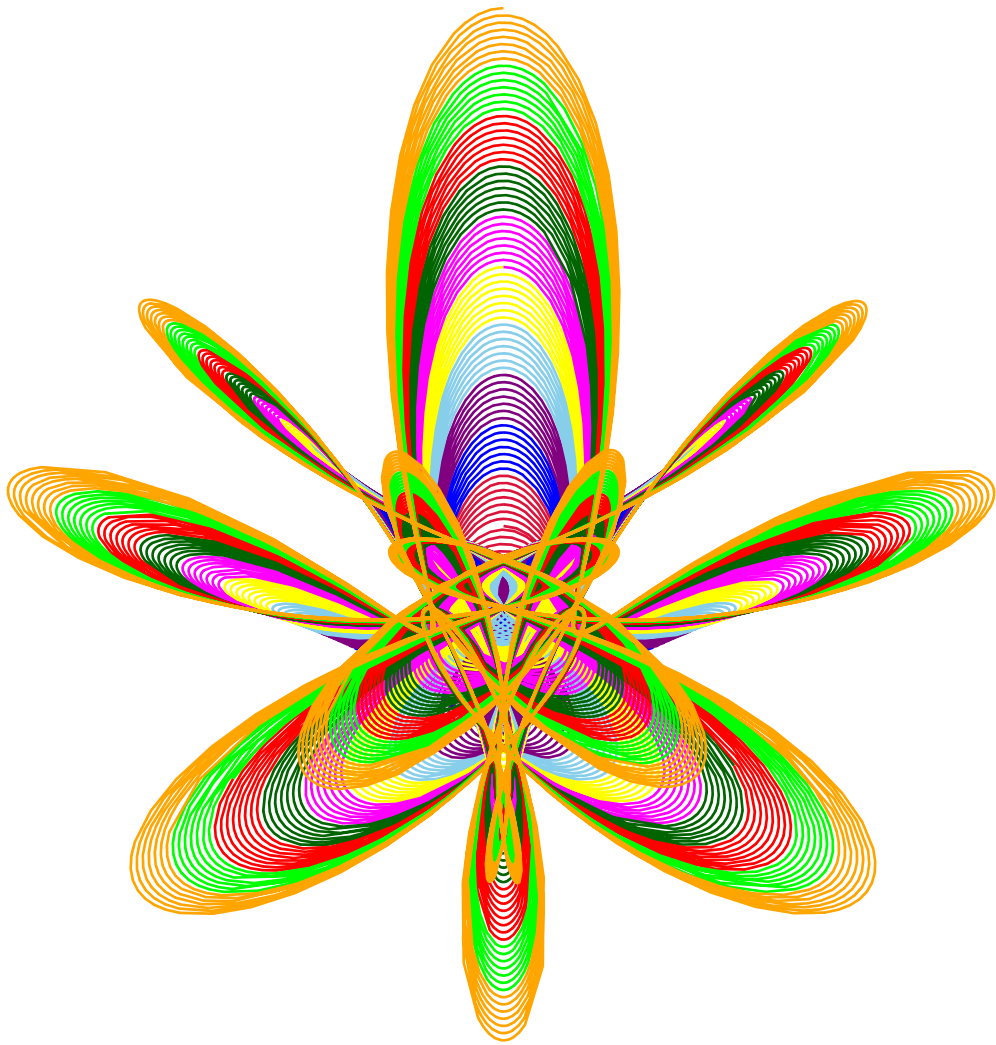
$$Hi_7 - Equ \quad X = \sin(560s) + \sin(280s) \cos(420s) \cos(280s) \sin\left(\tan\left(\frac{1}{5}s\right)\right)$$

$$Hi_{5014} - Equ \quad Y = \cos(840s) + \cos(280s)^2 \cos(420s) \sin\left(\tan\left(\frac{1}{5}s\right)\right)$$

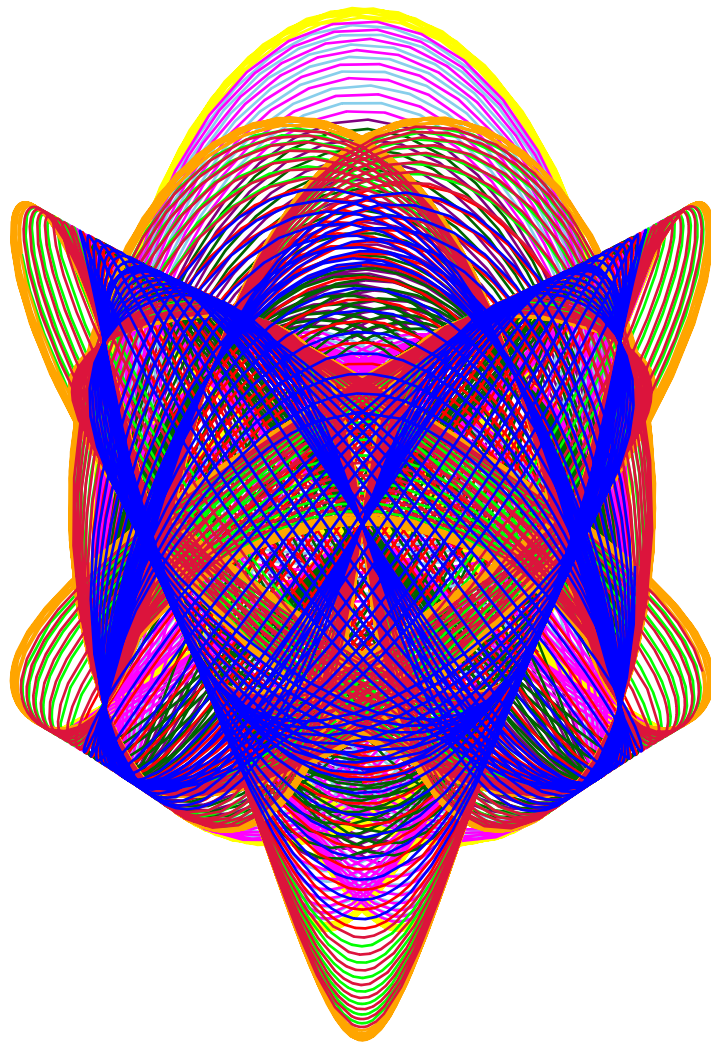


$$Hi_8 - Equ \quad X = \sin(142s) + \sin(71s) \cos(426s) \cos(355s) \cos\left(\tan\left(\frac{1}{5}s\right)\right)$$

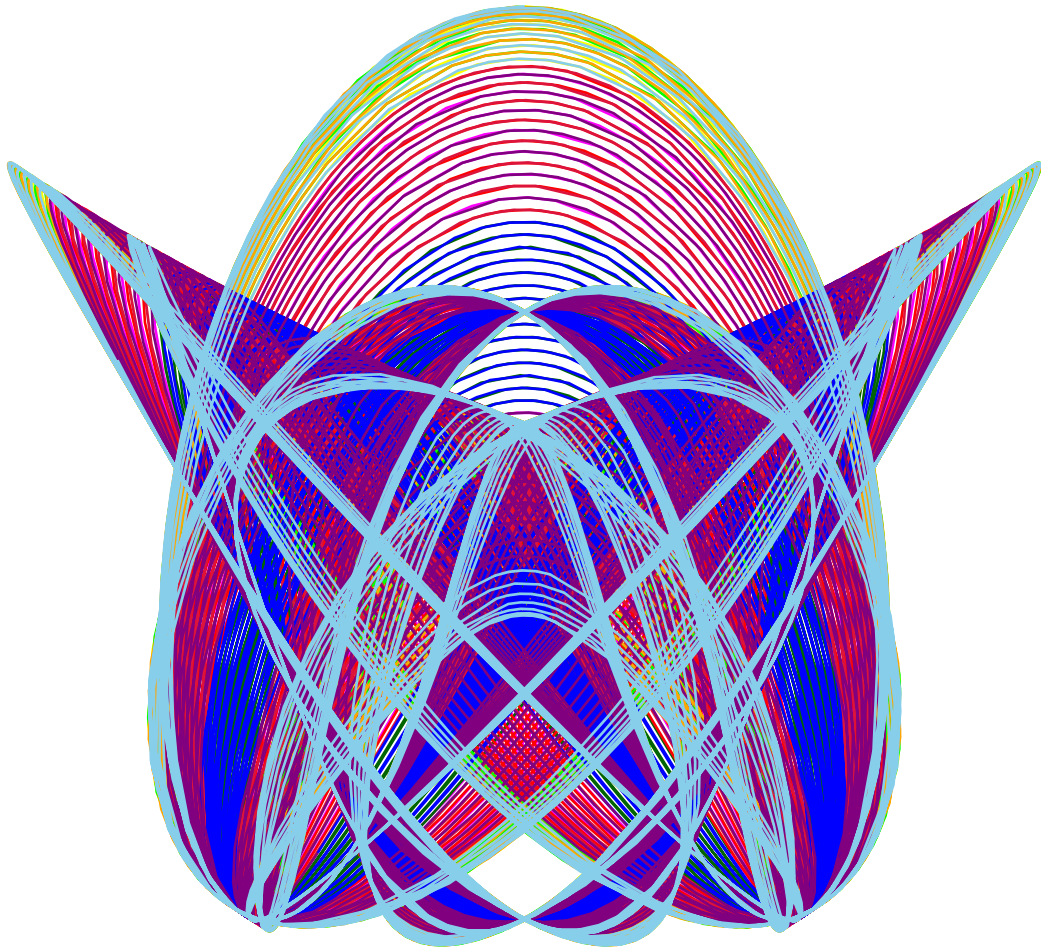
$$Hi_{5015} - Equ \quad Y = \cos(213s) + \cos(355s) \cos(426s) \cos(71s) \cos\left(\tan\left(\frac{1}{5}s\right)\right)$$



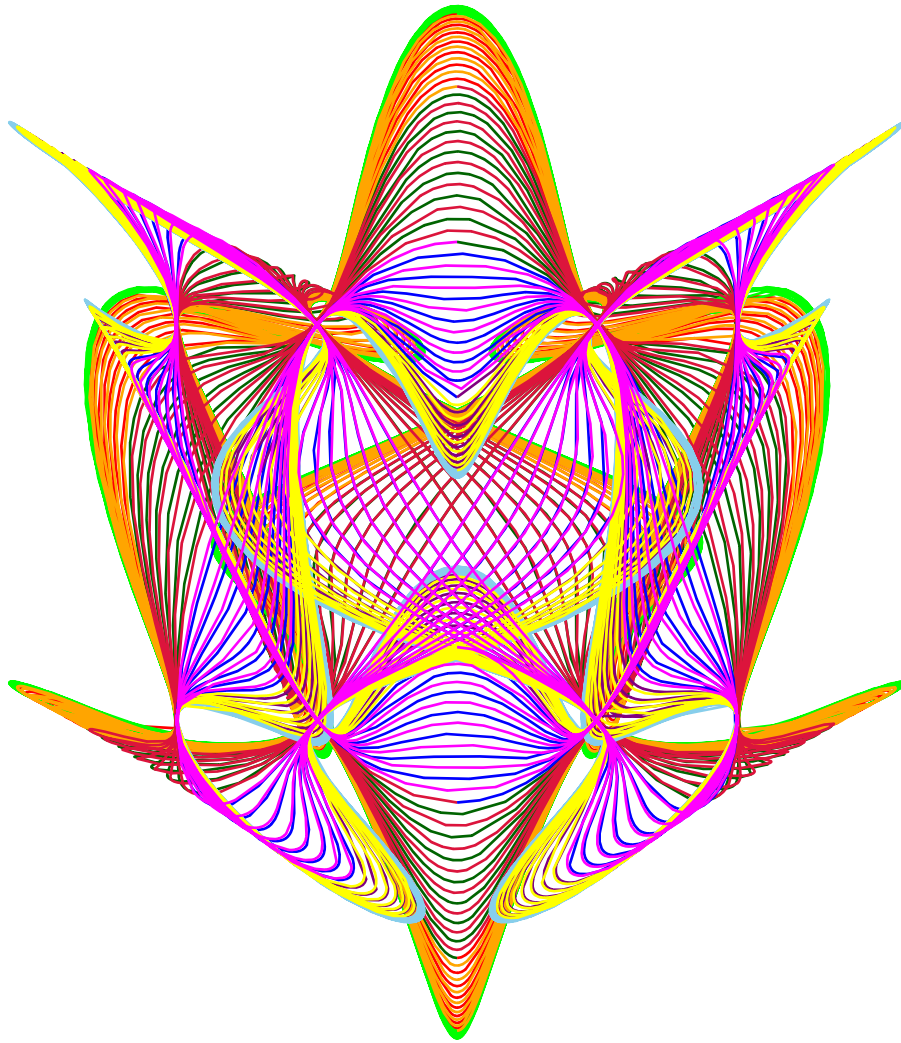
$$Hi_1 - Equ_X = \sin(288 s) + \sin(144 s) \cos(432 s) \cos(360 s) s$$
$$Hi_{5016} - Equ_Y = \cos(432 s) + \cos(360 s) \cos(432 s) \cos(144 s) s$$



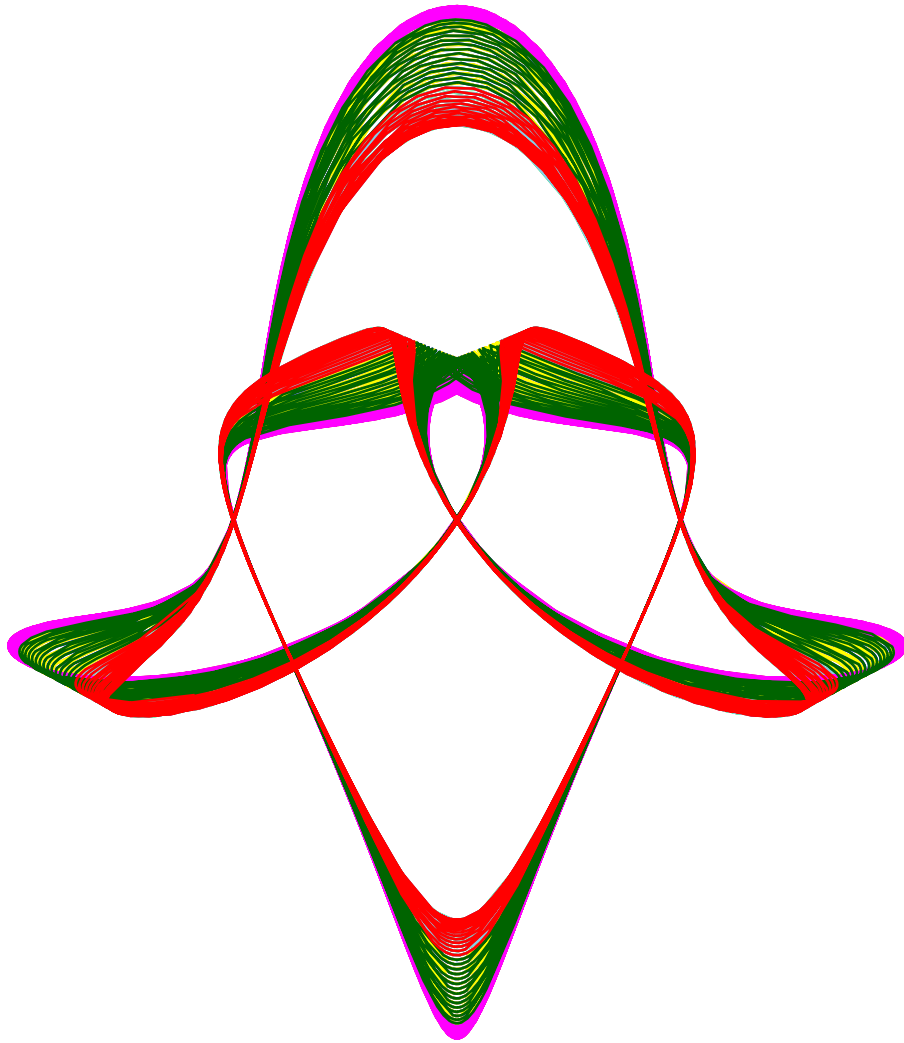
$$Hi_2 - Equ_X = \sin(438.s) + \sin(219.s) \cos(438.s) \cos(365.s) \sin(s)$$
$$Hi_{5017} - Equ_Y = \cos(657.s) + \cos(365.s) \cos(438.s) \cos(219.s) \sin(s)$$



$$Hi_3 - Equ_x = \sin(592.s) + \sin(296.s) \cos(444.s) \cos(370.s) \cos(s)$$
$$Hi_{5018} - Equ_y = \cos(888.s) + \cos(370.s) \cos(444.s) \cos(296.s) \cos(s)$$

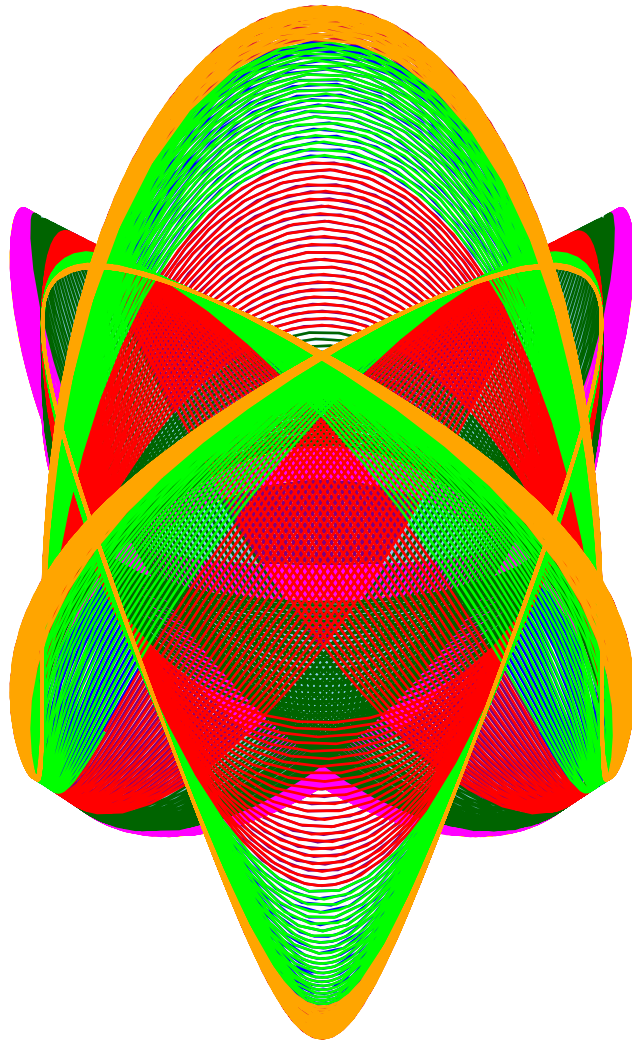


$$Hi_4 - Equ_{X = \sin(150.s) + \sin(75.s) \cos(450.s)^2 \sin(\sin(s))}$$
$$Hi_{5019} - Equ_{Y = \cos(225.s) + \cos(450.s)^2 \cos(75.s) \sin(\sin(s))}$$

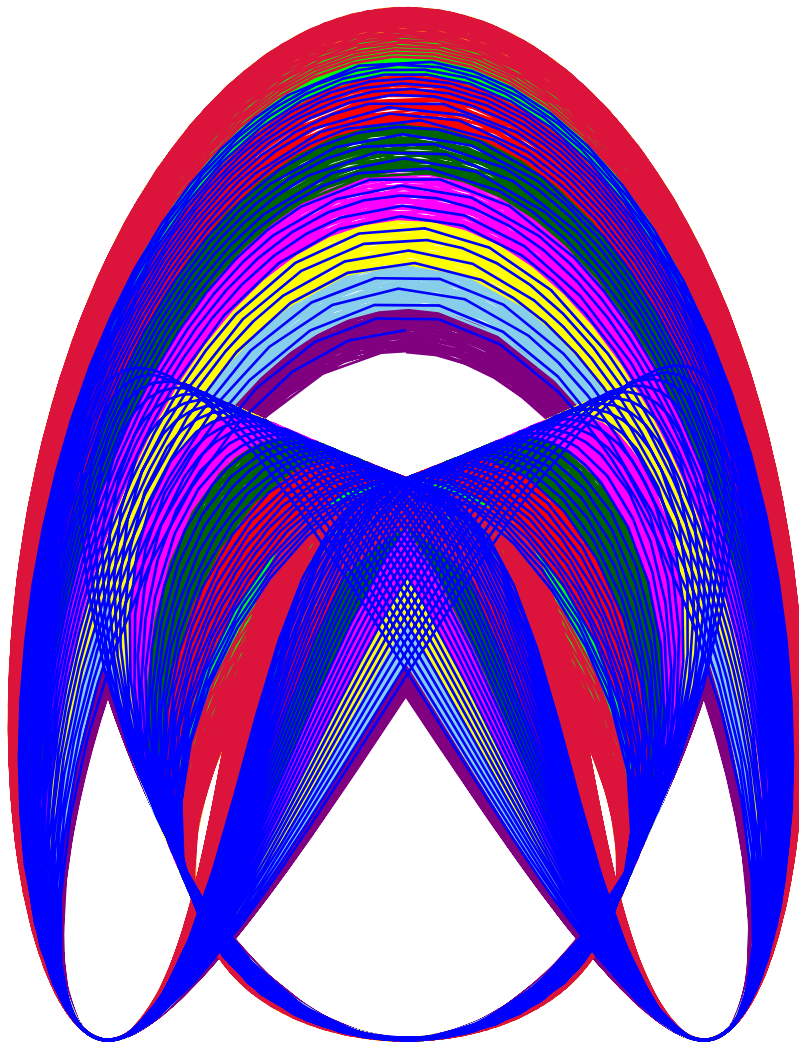


$$Hi_5 - Equ_{X = \sin(304s) + \sin(152s) \cos(456s)^2 \cos(\cos(s))}$$

$$Hi_{5020} - Equ_{Y = \cos(456s) + \cos(456s)^2 \cos(152s) \cos(\cos(s))}$$



$$\begin{aligned}
 Hi_6 - Equ & X = \sin(462s) + \sin(231s) \cos(462s)^2 \sin(\cos(s)) \\
 Hi_{5021} - Equ & Y = \cos(693s) + \cos(462s)^2 \cos(231s) \sin(\cos(s))
 \end{aligned}$$



$$Hi_7 - Equ \quad X = \sin(624s) + \sin(312s) \cos(468s)^2 \sin\left(\tan\left(\frac{1}{5}s\right)\right)$$

$$Hi_{5022} - Equ \quad Y = \cos(936s) + \cos(468s)^2 \cos(312s) \sin\left(\tan\left(\frac{1}{5}s\right)\right)$$

Warning, computation interrupted

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