

SP :=

... \StrucPAR25.dat

```

m := 0..9  n := 0..9  Stru(m,n) := SPm,n
St2(m,n) := wenn(|Stru(m,n)| > 500, 1, 0)
Sti(m,n) := |Stru(m,n)| - 1000·St2(m,n)
St0(m,n) := rund(Sti(m,n))  St1(m,n) := (Sti(m,n) - St0(m,n))·1000
St2(m,n) := wenn(Stru(m,n) < 0, -2, St2(m,n))
St2(m,n) := wenn(Stru(m,n) < -500, -1, St2(m,n))
St0(m,n) := wenn(Stru(m,n) < -500, -St0(m,n), St0(m,n))
St1(m,n) := wenn(Stru(m,n) < -500, -St1(m,n), St1(m,n))
St(m,n) :=  $\begin{pmatrix} St0(m,n) \\ St1(m,n) \\ St2(m,n) \end{pmatrix}$   STRUCm,n := St(m,n)
    
```

Free pattern  
tP52, cP30, tI50,  
oC2, mP512, mC34  
Structures do not  
exist !!!!!!!!!!!!!

**Zoom**  
**actor =**  
**12 for**  
**x2cm**

cP1	cP8	cP16	cP20	ex	ex	ex	HI	Melt	u
cI2	cI8	cI16	cI58	cF4	cF8	ex	HII	ex	u2
tP4	tP8	tP32	ex	tP192	ex	ex	HIII	ex	HGD
tI2	tI4	tI16	ex	ex	ex	ex	HIV	HGLL	HGL
oP4	oP8	oP16	oP28	oI2	oI4	oI16	HV	ex	ML
oF4	oF6	oF8	oF16	oF128	ex	ex	ex	ex	oC120
ex	oC4	oC8	oC16	oC24	oC40	oC52	oC84	oC88	oC104
ex	mP84	mP64	mC4	mC16	mI4	mI2	mI12	aP90	aI6
hP1	hP2	hP3	hP4	hP6	hP9	hP14	hR18	mC6	mP4
hR1	hR2	hR3	hR6	hR9	hR12	hR16	hR24	hR100	hR106

:= STRUC      f := 1

```

mp(x,y,r) := (cos(10·x)2 - cos(10·y)2)2-r  mq(x,y) := sign[sin[20·(x+y)] + sin[20·(x-y)]]
mr(x,y) := sign(cos(20·x) - cos(20·y))  mn(x,y,r) := wenn(r < -1, mq(x,y), mr(x,y))
mz(x,y,r) := wenn(r < 0, mn(x,y,r), mp(x,y,r))  h(x,y,hz,ar,r) := hz + ar·mz(x,y,r)
    
```

**Neue Pearson-Def können hier eingefügt werden,  
um dann mit Str die Speicherung zu aktivieren. Z.B.:**

STR25 :=

cP1	cP8	cP16	cP20	ex	ex	ex	HI	Melt	u
cI2	cI8	cI16	cI58	cF4	cF8	ex	HII	ex	u2
tP4	tP8	tP32	ex	tP192	ex	ex	HIII	ex	HGD
tI2	tI4	tI16	ex	ex	ex	ex	HIV	HGLL	HGL
oP4	oP8	oP16	oP28	oI2	oI4	oI16	HV	ex	ML
oF4	oF6	oF8	oF16	oF128	ex	ex	ex	ex	oC120
ex	oC4	oC8	oC16	oC24	oC40	oC52	oC84	oC88	oC104
ex	mP84	mP64	mC4	mC16	mI4	mI2	mI12	aP90	aI6
hP1	hP2	hP3	hP4	hP6	hP9	hP14	hR18	mC6	mP4
hR1	hR2	hR3	hR6	hR9	hR12	hR16	hR24	hR100	hR106

STR(m,n) := STR25<sub>m,n</sub>

Stru(m,n) := STR(m,n)<sub>0</sub> + .001·STR(m,n)<sub>1</sub> + 1000·STR(m,n)<sub>2</sub>    Str<sub>m,n</sub> := Stru(m,n)

$$\text{Zsp}(x, y, \text{sp}) := \begin{pmatrix} x \\ y \\ h(x, y, \text{sp}_0, \text{sp}_1, \text{sp}_2) \end{pmatrix}$$

u(x, y) := Zsp(x, y, u)

u2(x, y) := Zsp(x, y, u2)

Melt(x, y) := Zsp(x, y, Melt)

HI(x, y) := Zsp(x, y, HI)

HII(x, y) := Zsp(x, y, HII)

HIII(x, y) := Zsp(x, y, HIII)

HIV(x, y) := Zsp(x, y, HIV)

HV(x, y) := Zsp(x, y, HV)

cP1(x, y) := Zsp(x, y, cP1)

cP8(x, y) := Zsp(x, y, cP8)

cP16(x, y) := Zsp(x, y, cP16)

cP20(x, y) := Zsp(x, y, cP20)

cl2(x, y) := Zsp(x, y, cl2)

cl8(x, y) := Zsp(x, y, cl8)

cl16(x, y) := Zsp(x, y, cl16)

cl58(x, y) := Zsp(x, y, cl58)

cF4(x, y) := Zsp(x, y, cF4)

cF8(x, y) := Zsp(x, y, cF8)

tP4(x, y) := Zsp(x, y, tP4)

tP8(x, y) := Zsp(x, y, tP8)

tP32(x, y) := Zsp(x, y, tP32)

tP192(x, y) := Zsp(x, y, tP192)

tl2(x, y) := Zsp(x, y, tl2)

tl4(x, y) := Zsp(x, y, tl4)

tl16(x, y) := Zsp(x, y, tl16)

oP4(x, y) := Zsp(x, y, oP4)

oP8(x, y) := Zsp(x, y, oP8)

oP16(x, y) := Zsp(x, y, oP16)

oP28(x, y) := Zsp(x, y, oP28)

oI2(x, y) := Zsp(x, y, oI2)

oI4(x, y) := Zsp(x, y, oI4)

oI16(x, y) := Zsp(x, y, oI16)

oC4(x, y) := Zsp(x, y, oC4)

oC8(x, y) := Zsp(x, y, oC8)

oC16(x, y) := Zsp(x, y, oC16)

oC24(x, y) := Zsp(x, y, oC24)

oC40(x, y) := Zsp(x, y, oC40)

oC52(x, y) := Zsp(x, y, oC52)

oC84(x, y) := Zsp(x, y, oC84)

oC88(x, y) := Zsp(x, y, oC88)

oC104(x, y) := Zsp(x, y, oC104)

oC120(x, y) := Zsp(x, y, oC120)

oF4(x, y) := Zsp(x, y, oF4)

oF6(x, y) := Zsp(x, y, oF6)

oF8(x, y) := Zsp(x, y, oF8)

oF16(x, y) := Zsp(x, y, oF16)

oF128(x, y) := Zsp(x, y, oF128)

mP4(x, y) := Zsp(x, y, mP4)

mP64(x, y) := Zsp(x, y, mP64)

mP84(x, y) := Zsp(x, y, mP84)

mI2(x, y) := Zsp(x, y, mI2)

mI4(x, y) := Zsp(x, y, mI4)

mI12(x, y) := Zsp(x, y, mI12)

mC4(x, y) := Zsp(x, y, mC4)

mC6(x, y) := Zsp(x, y, mC6)

mC16(x, y) := Zsp(x, y, mC16)

hP1(x, y) := Zsp(x, y, hP1)

hP2(x, y) := Zsp(x, y, hP2)

hP3(x, y) := Zsp(x, y, hP3)

hP4(x, y) := Zsp(x, y, hP4)

hP6(x, y) := Zsp(x, y, hP6)

hP9(x, y) := Zsp(x, y, hP9)

hP14(x, y) := Zsp(x, y, hP14)

hR1(x, y) := Zsp(x, y, hR1)

hR2(x, y) := Zsp(x, y, hR2)

hR3(x, y) := Zsp(x, y, hR3)

hR6(x, y) := Zsp(x, y, hR6)

hR9(x, y) := Zsp(x, y, hR9)

hR12(x, y) := Zsp(x, y, hR12)

hR16(x, y) := Zsp(x, y, hR16)

hR18(x, y) := Zsp(x, y, hR18)

hR24(x, y) := Zsp(x, y, hR24)

hR100(x, y) := Zsp(x, y, hR100)

hR106(x, y) := Zsp(x, y, hR106)

aP90(x, y) := Zsp(x, y, aP90)

aI6(x, y) := Zsp(x, y, aI6)

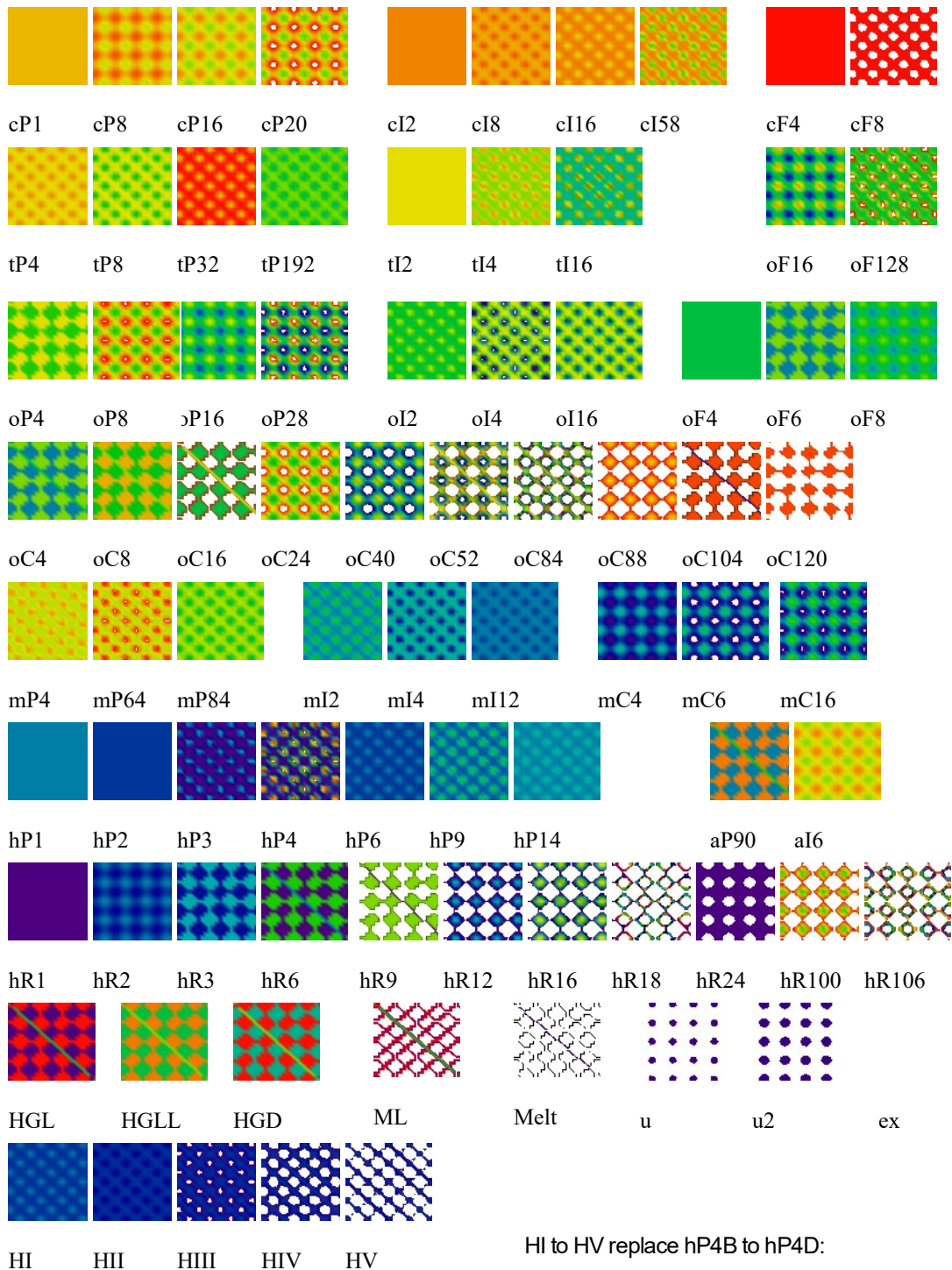
HGL(x, y) := Zsp(x, y, HGL)

HGLL(x, y) := Zsp(x, y, HGLL)

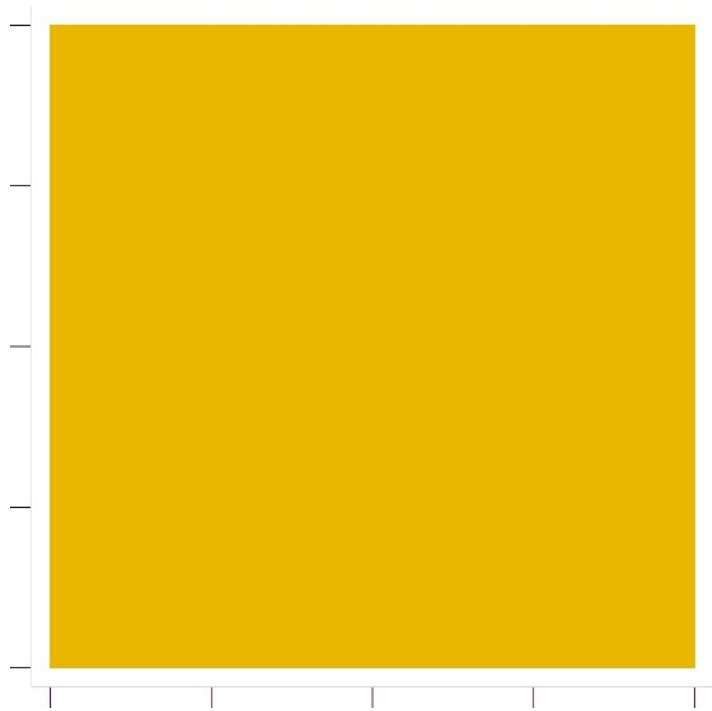
HGD(x, y) := Zsp(x, y, HGD)

ML(x, y) := Zsp(x, y, ML)

**Zoom factor = 12 for 2x2cm**



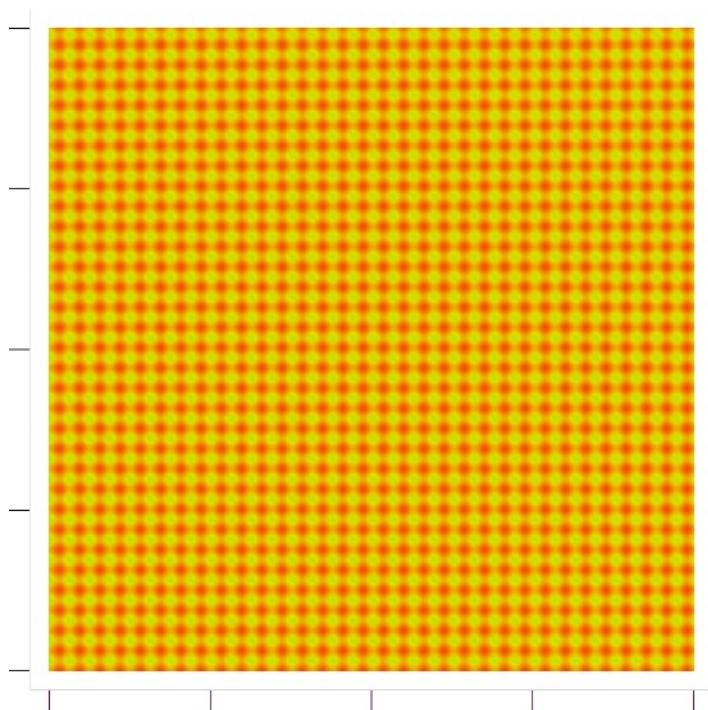
**Zoom factor = 1.5 here for**  
**12x12cm inner frame, ~14x15cm outer frame**  
**equivalent to zoom factor 1.2 in PD-plots !!!!!!!!!!!!!**



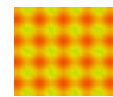
cP1



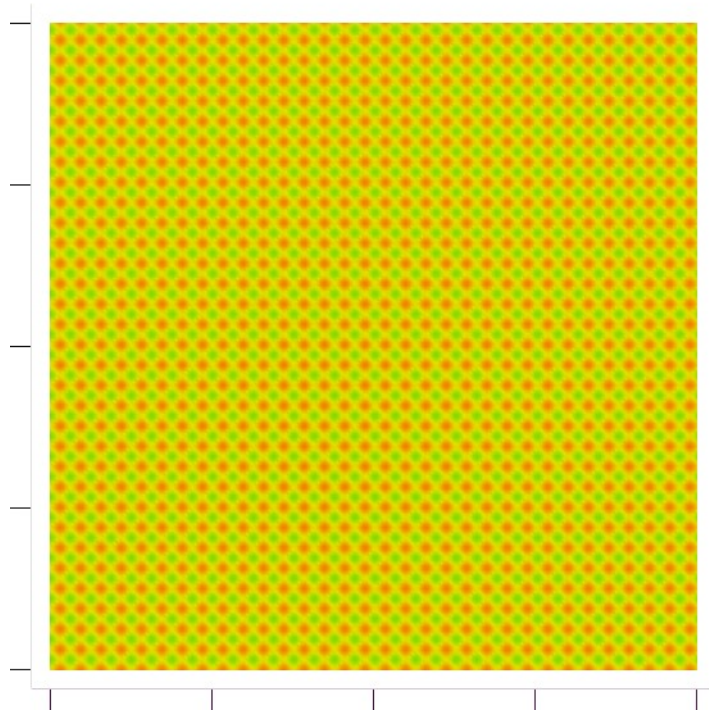
cP1



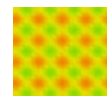
cP8



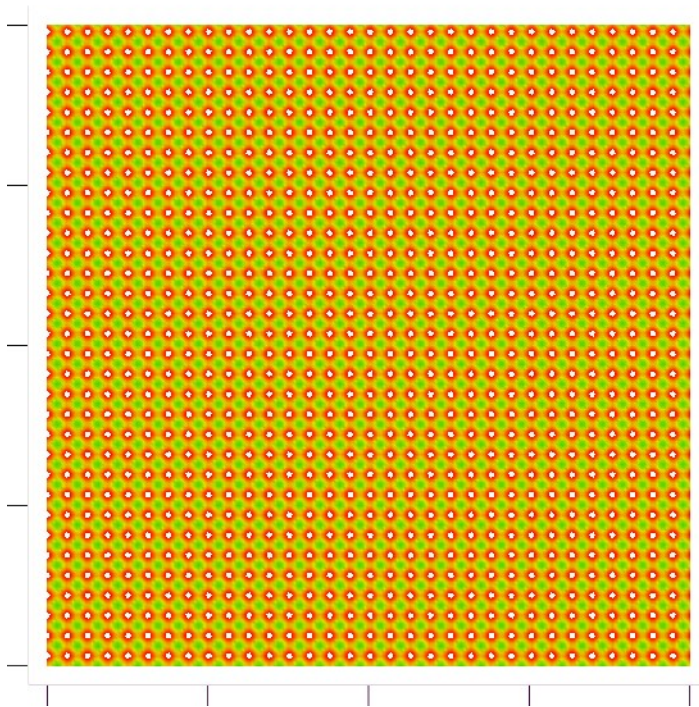
cP8



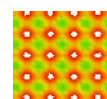
cP16



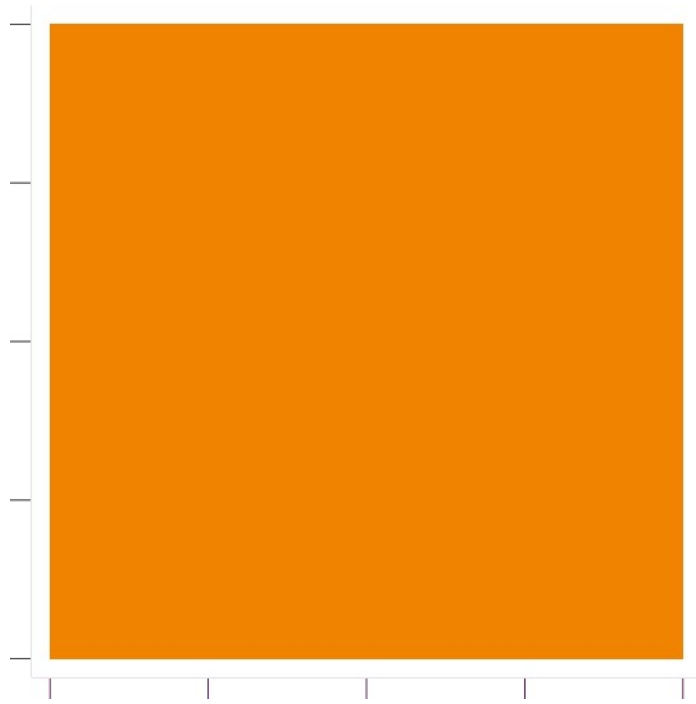
cP16



cP20



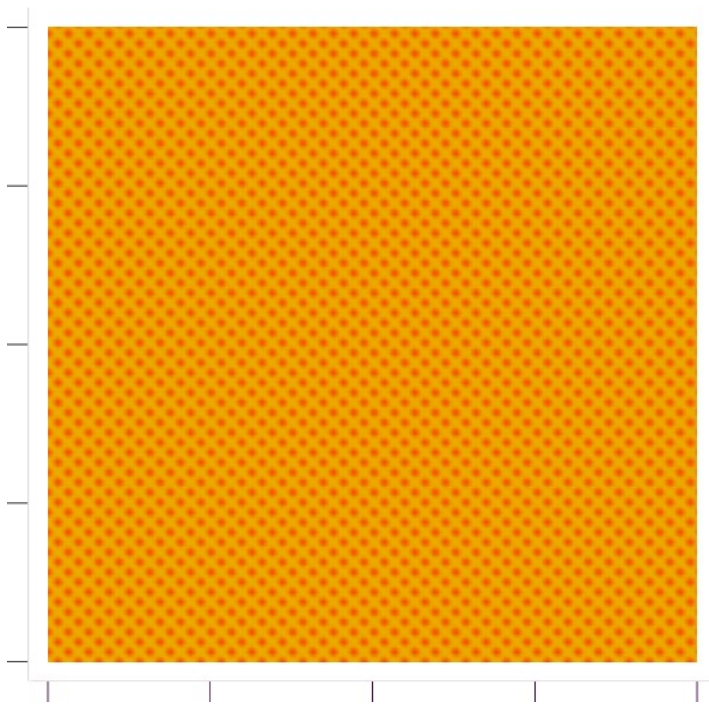
cP20



c12



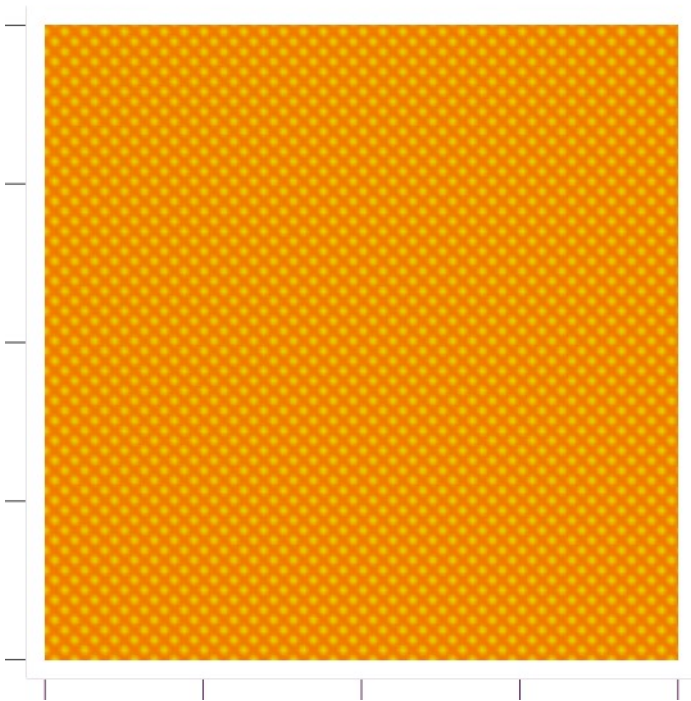
c12



c18



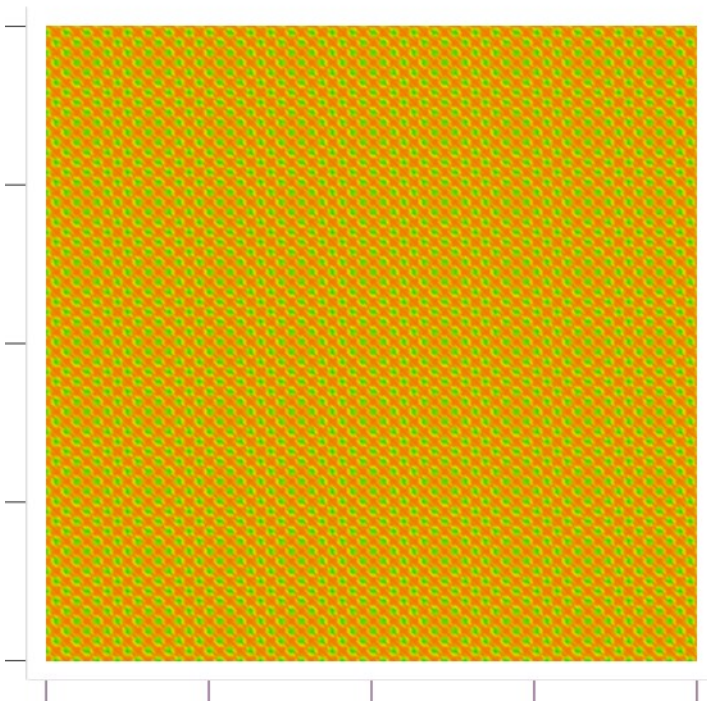
c18



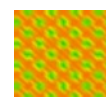
c116



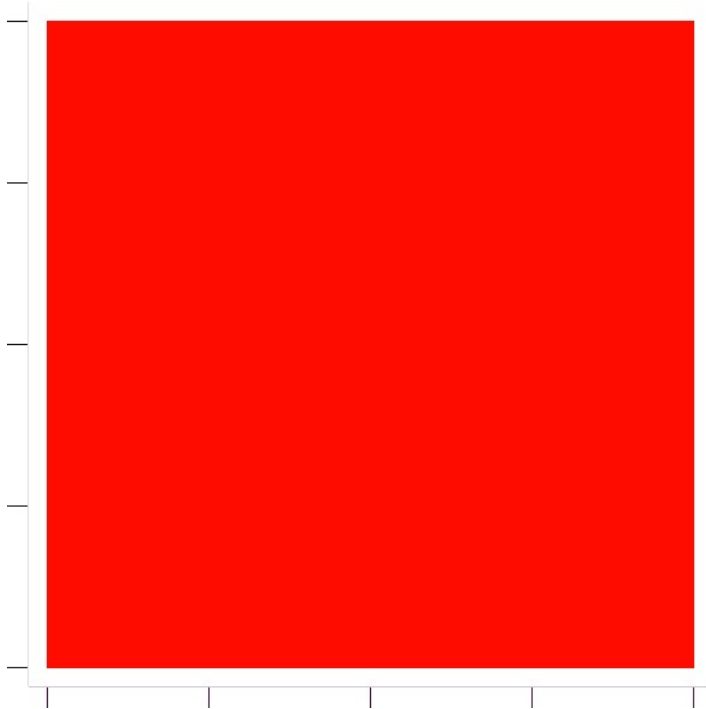
c116



c158

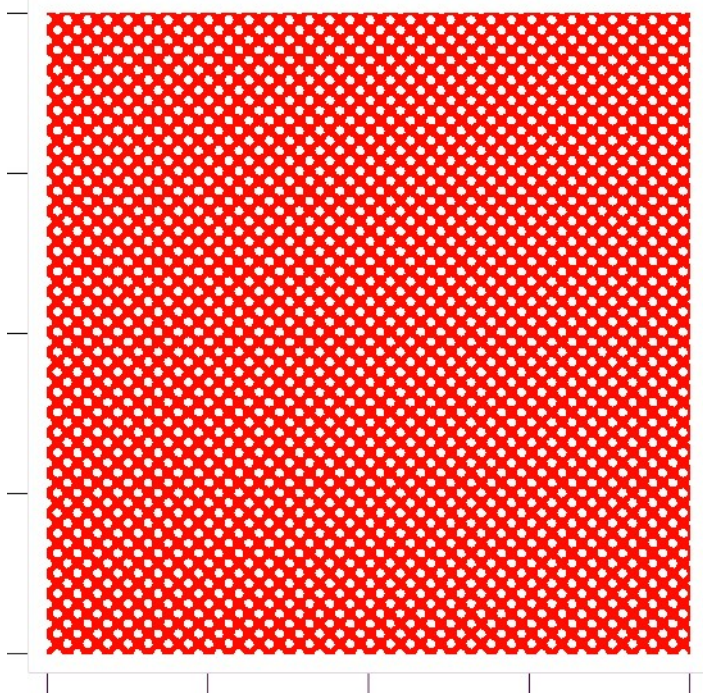


c158



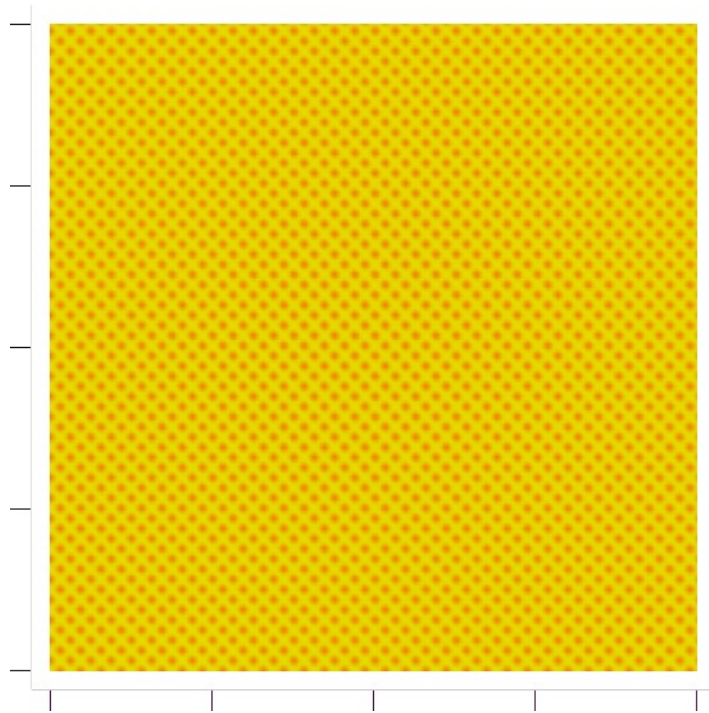
cF4

cF4

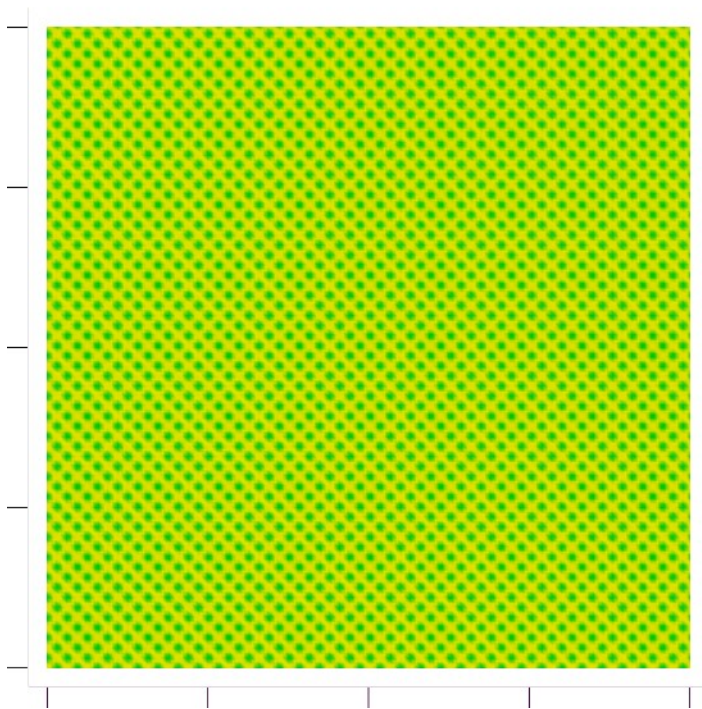


cF8

cF8

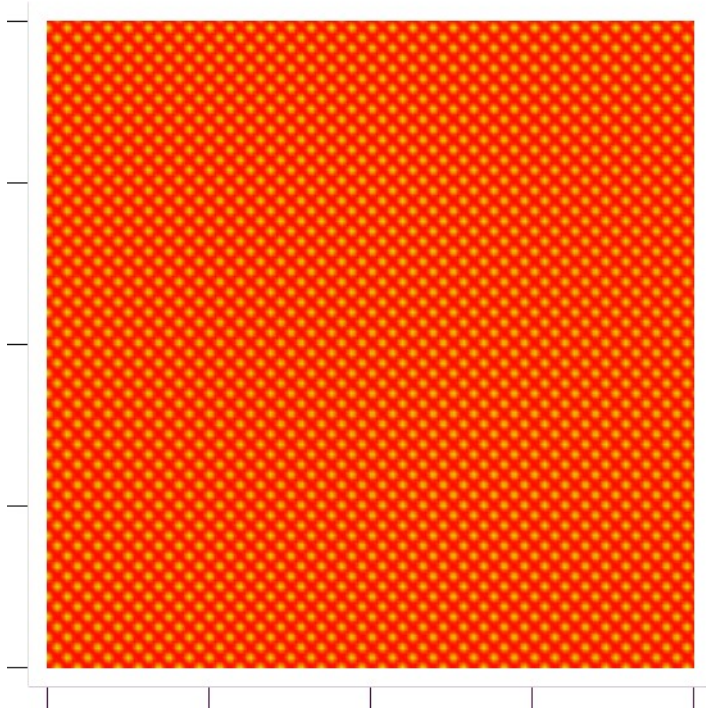


tP4

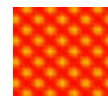


tP8

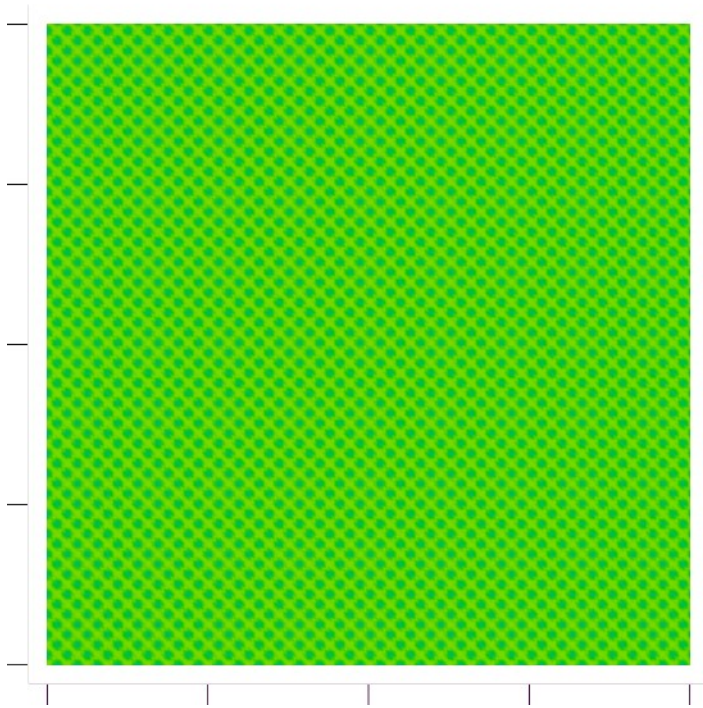
tP8



tP32



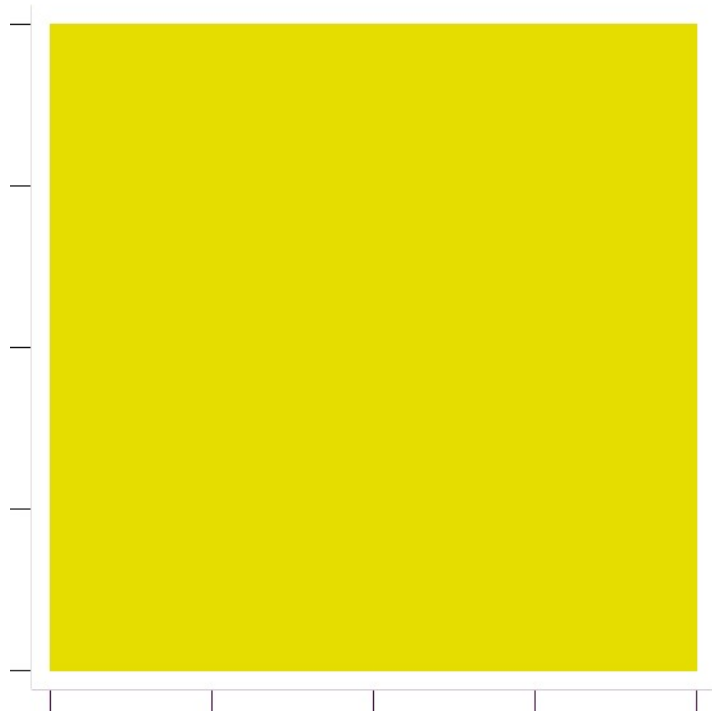
tP32



tP192



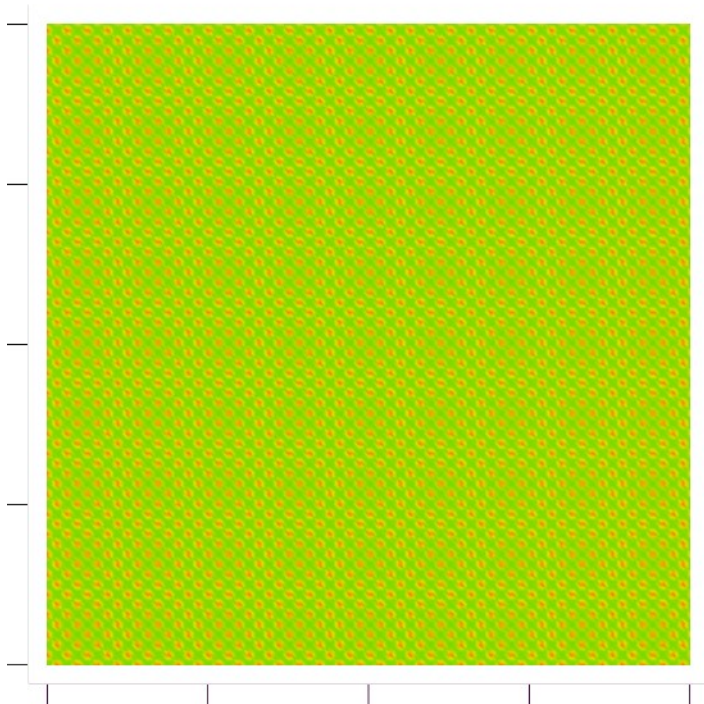
tP192



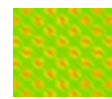
t12



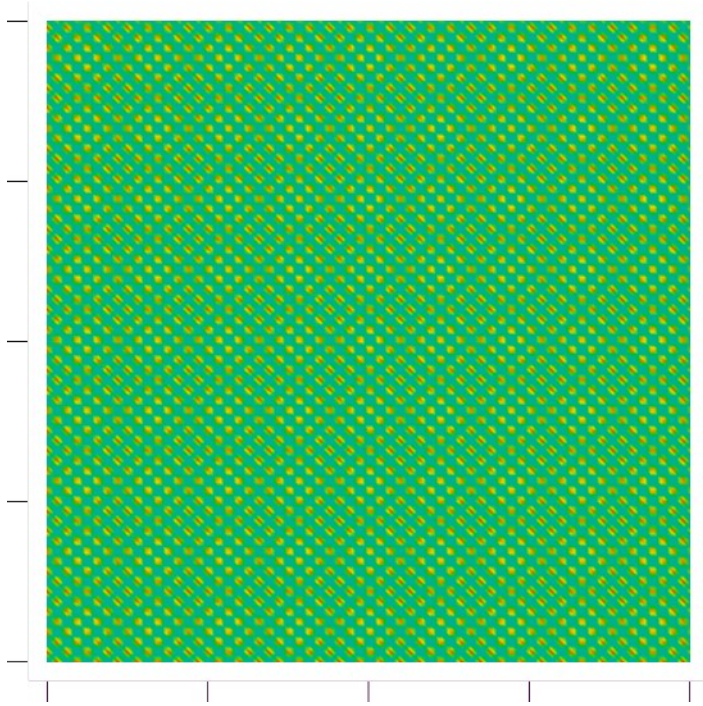
t12



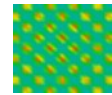
t14



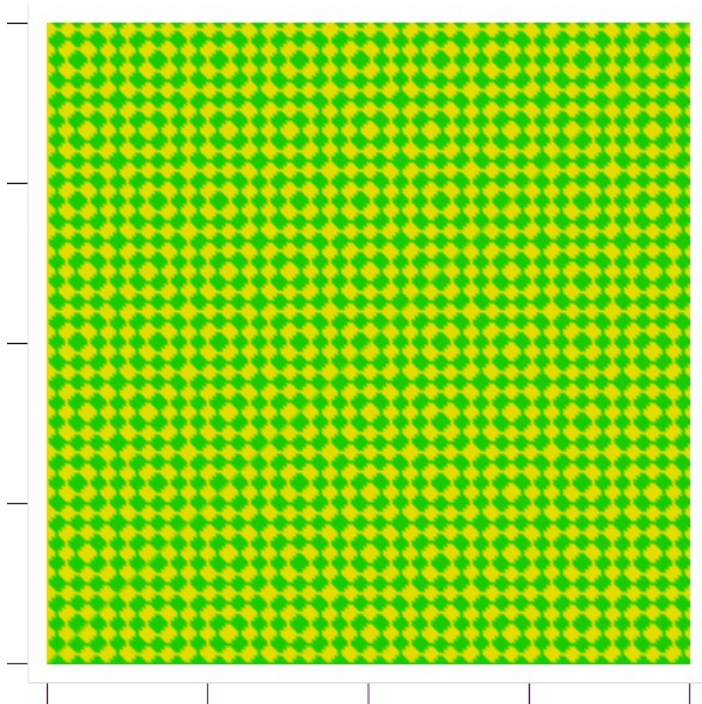
t14



tI16



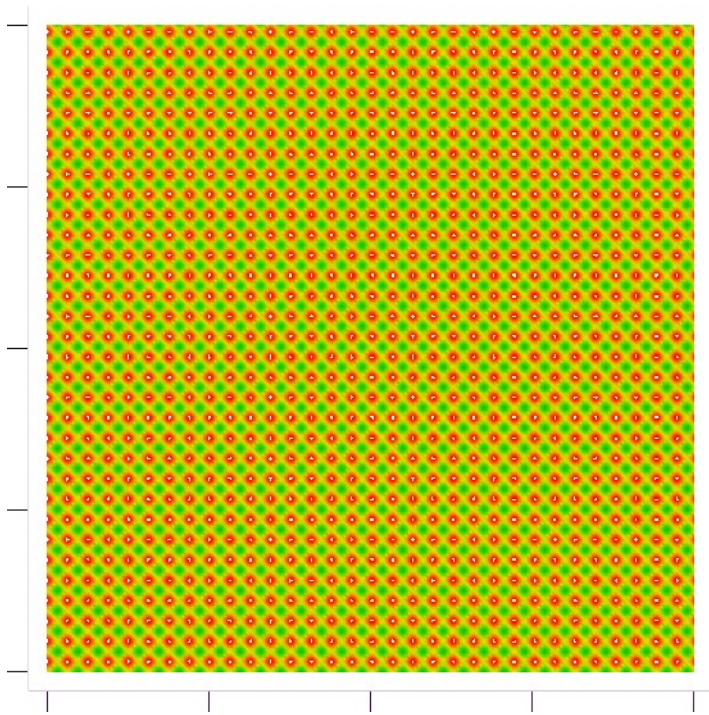
tI16



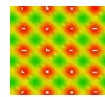
oP4



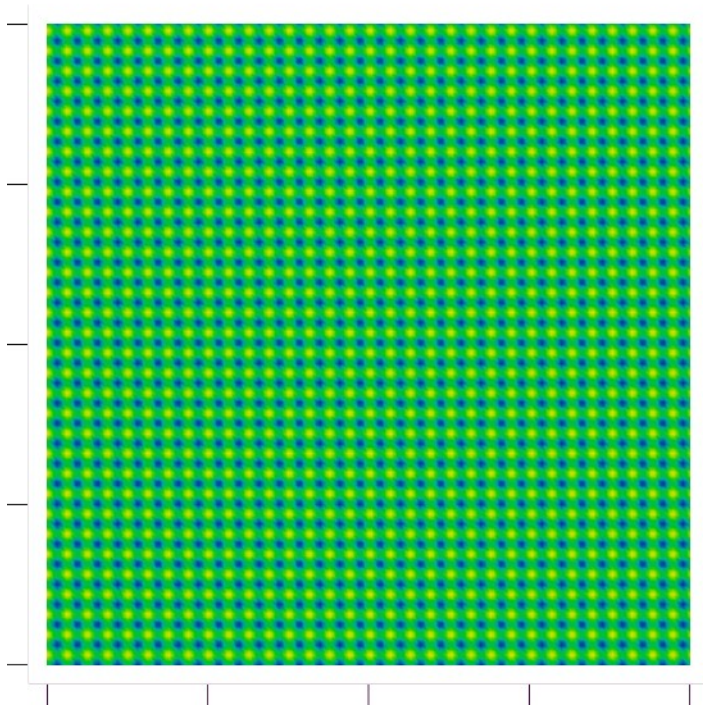
oP4



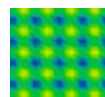
oP8



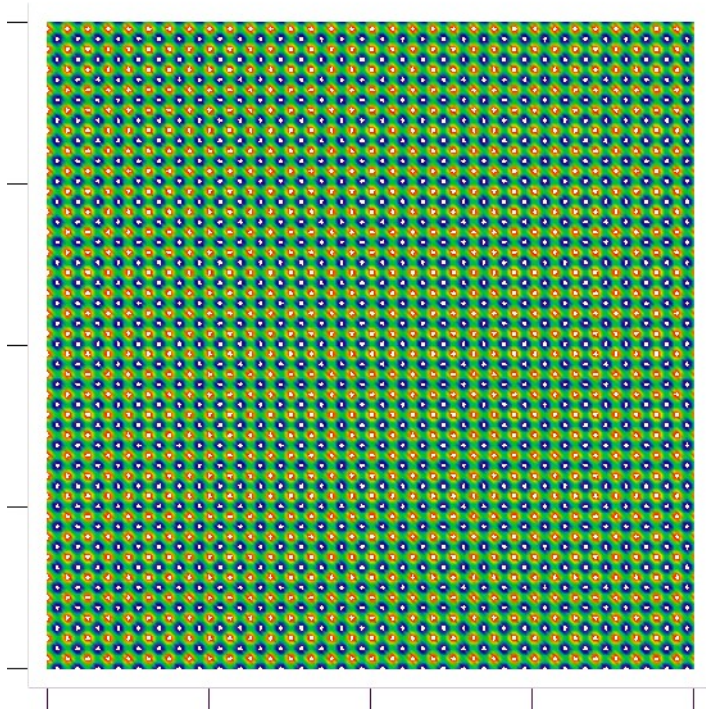
oP8



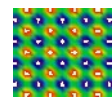
oP16



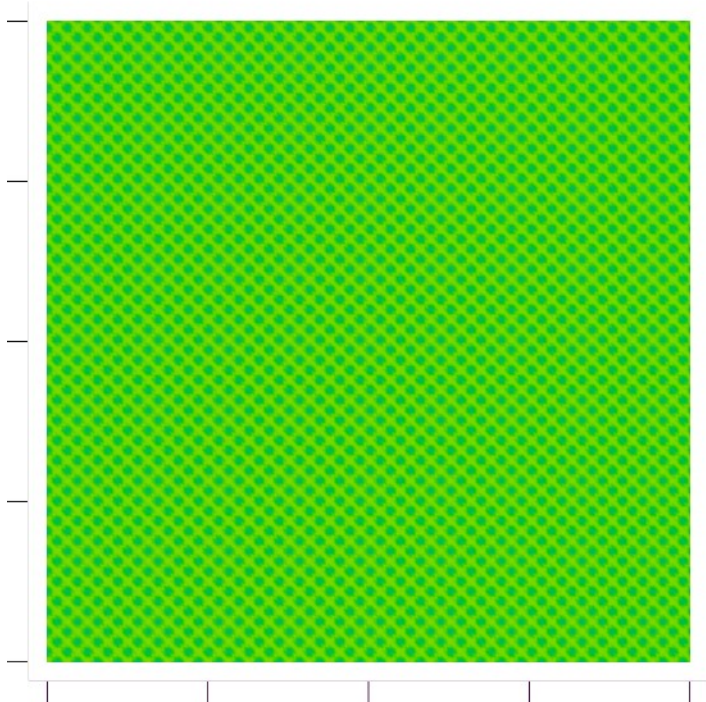
oP16



oP28



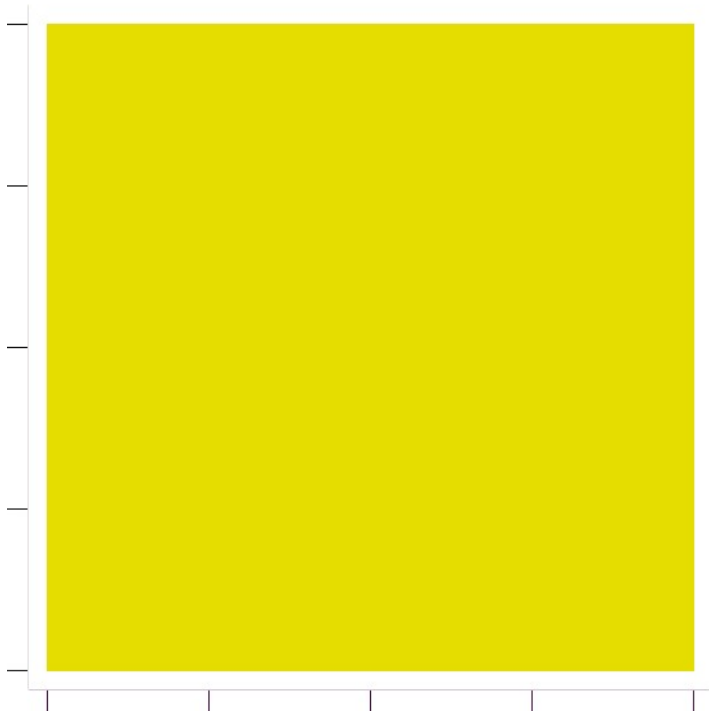
oP28



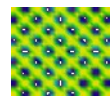
tP192



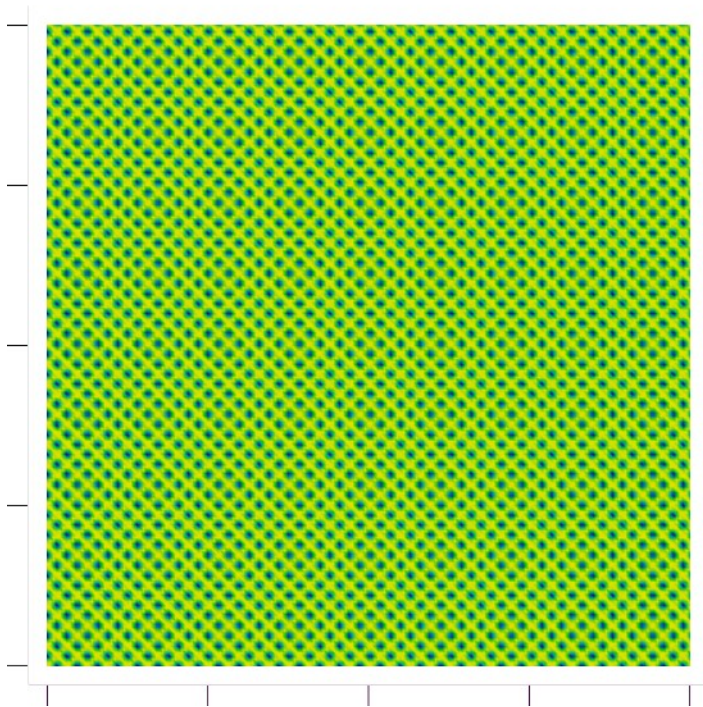
oI2



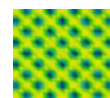
t12



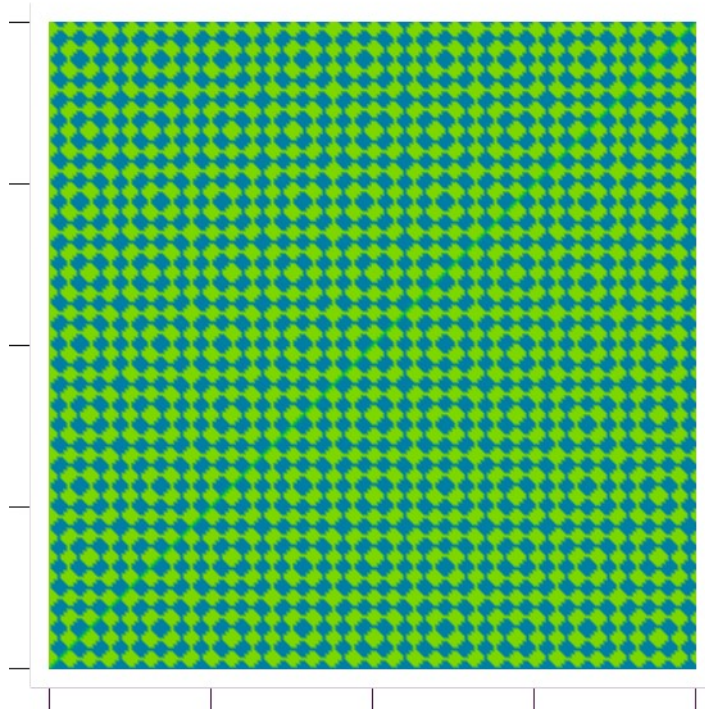
o14



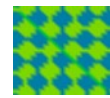
o116



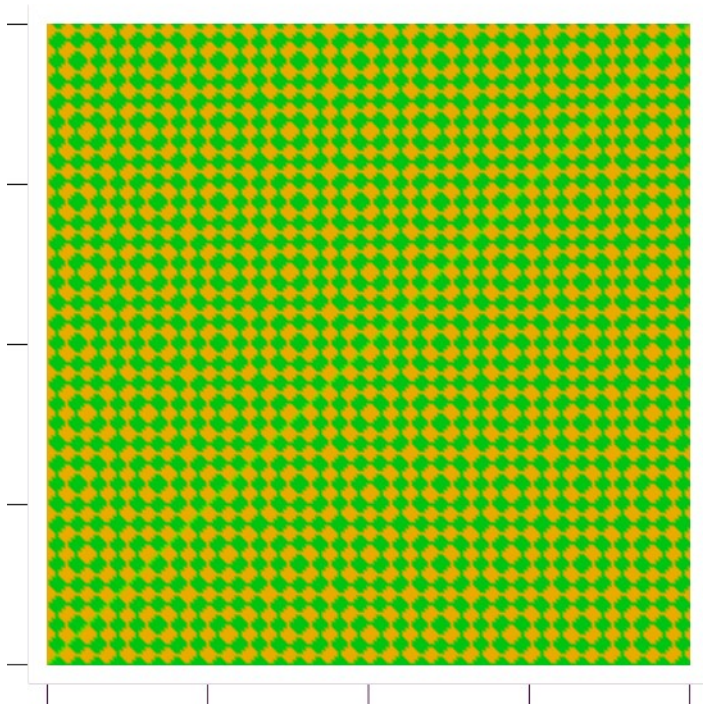
o116



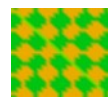
oC4



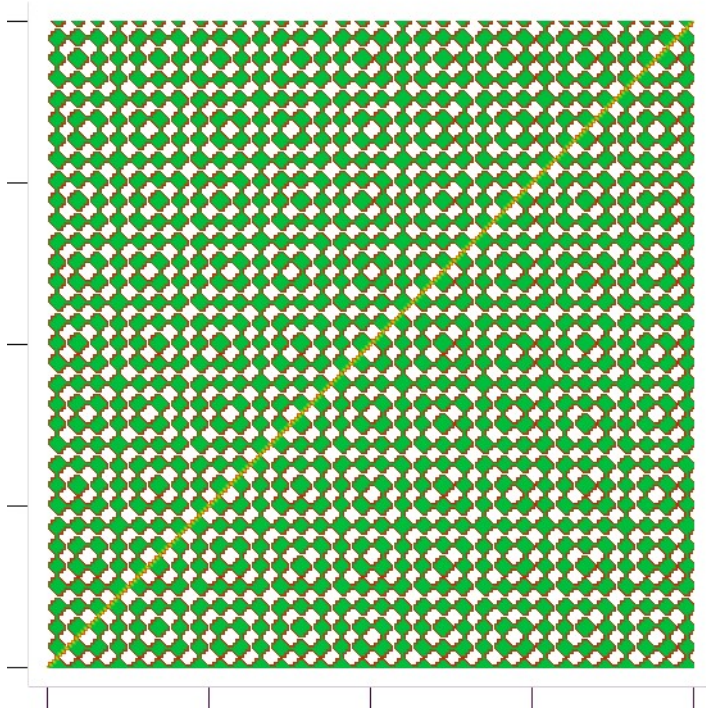
oC4



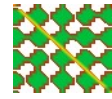
oC8



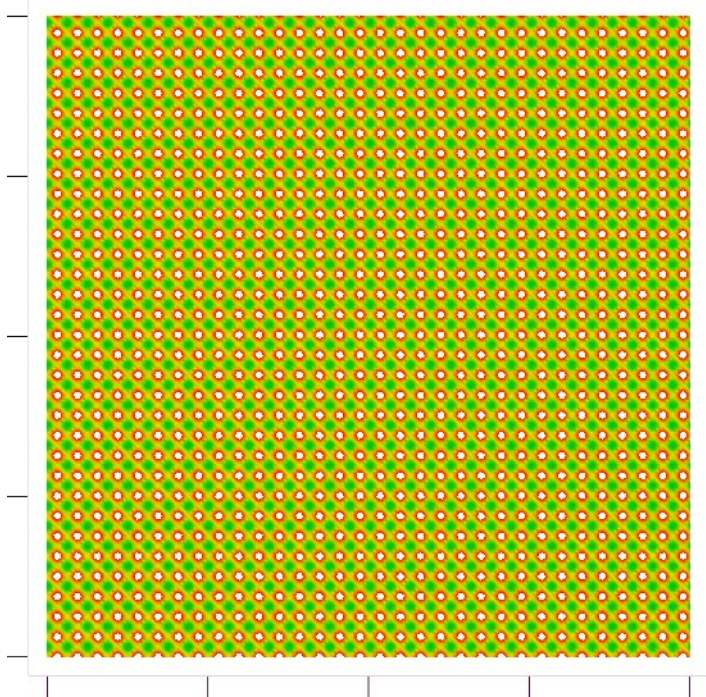
oC8



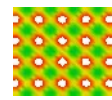
oC16



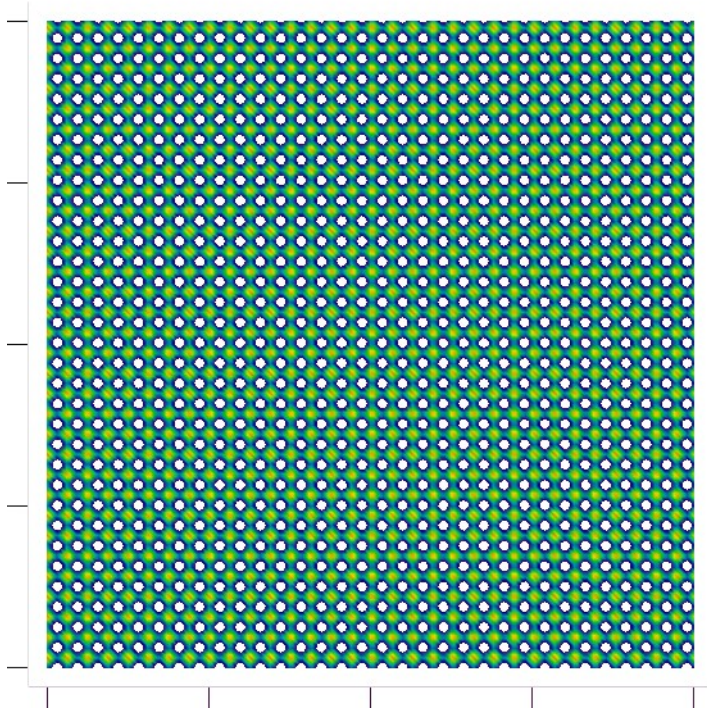
oC16



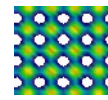
oC24



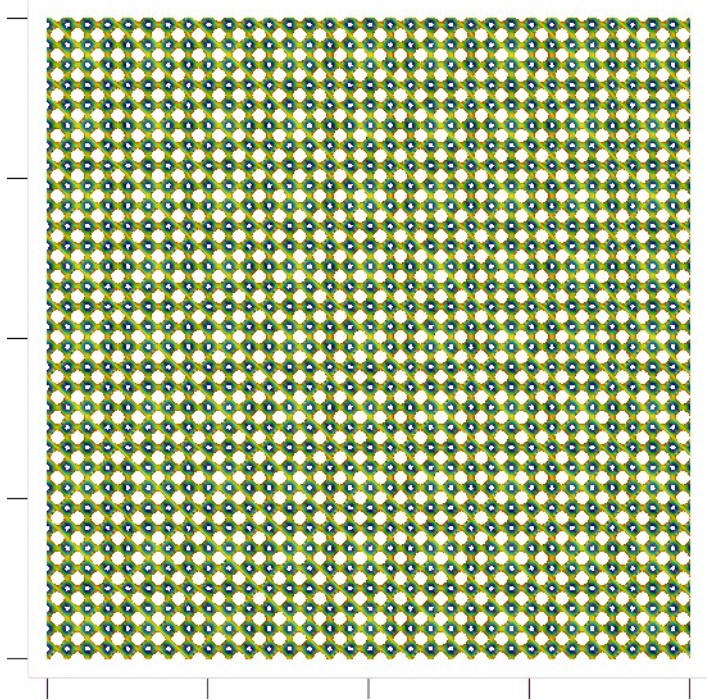
oC24



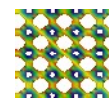
oC40



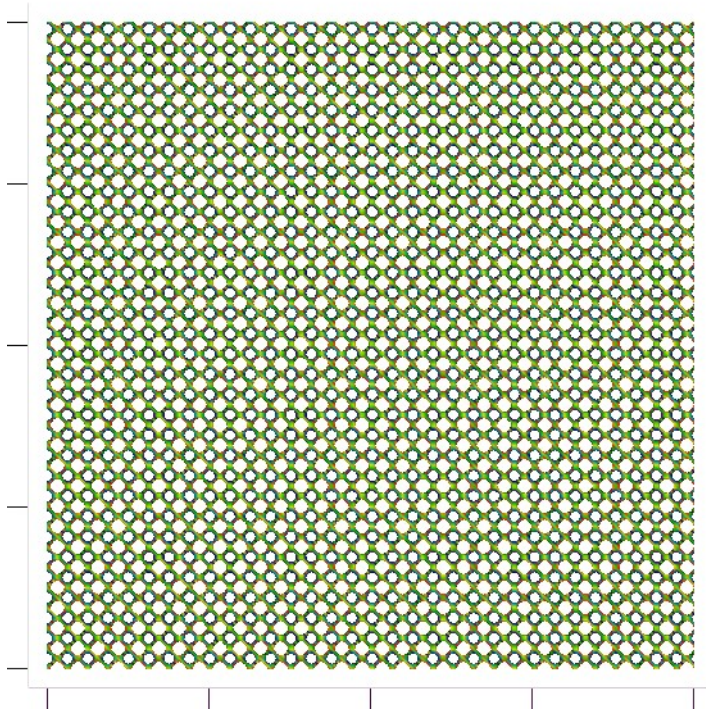
oC40



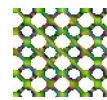
oC52



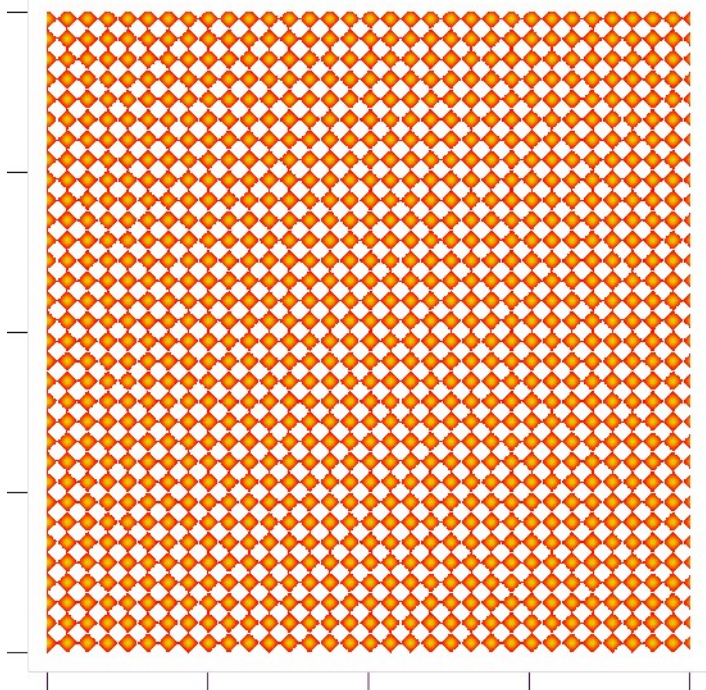
oC52



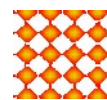
oC84



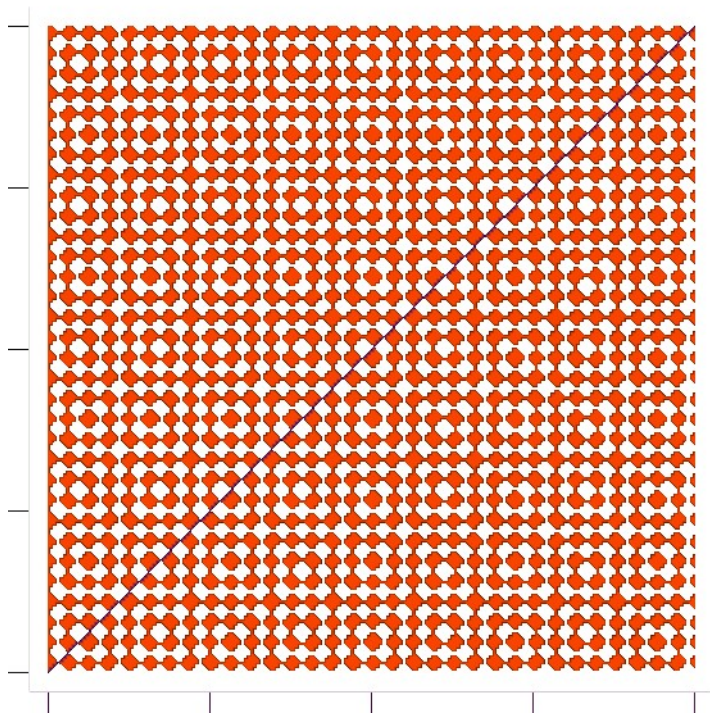
oC84



oC88



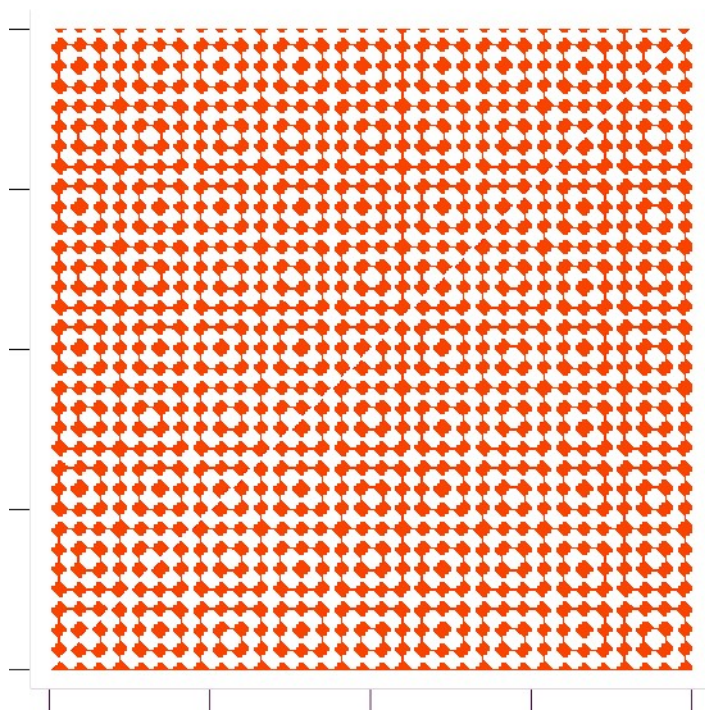
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oC104



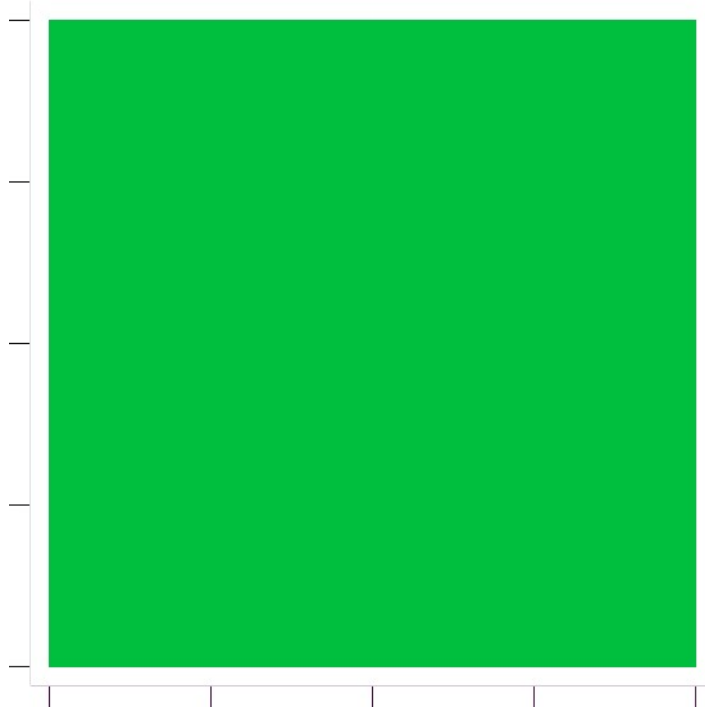
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oC120



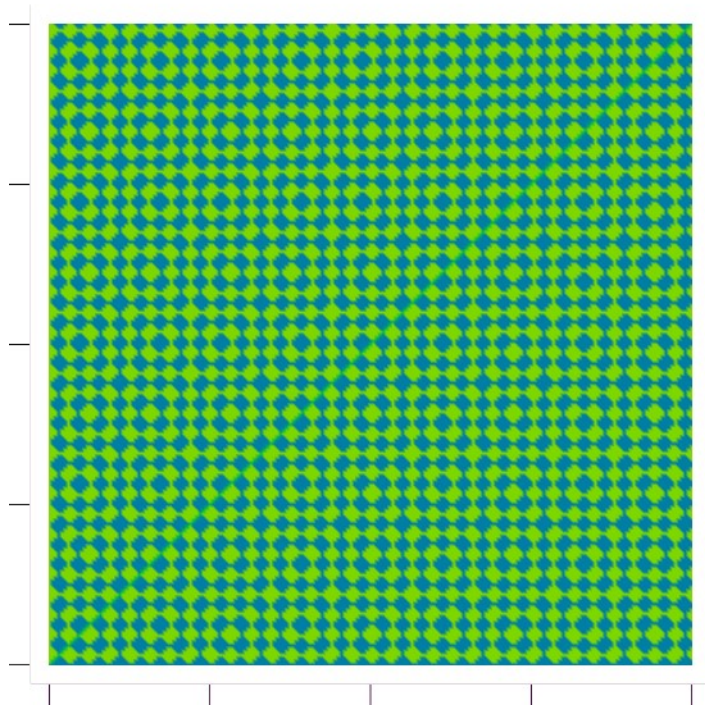
oC120



oF4



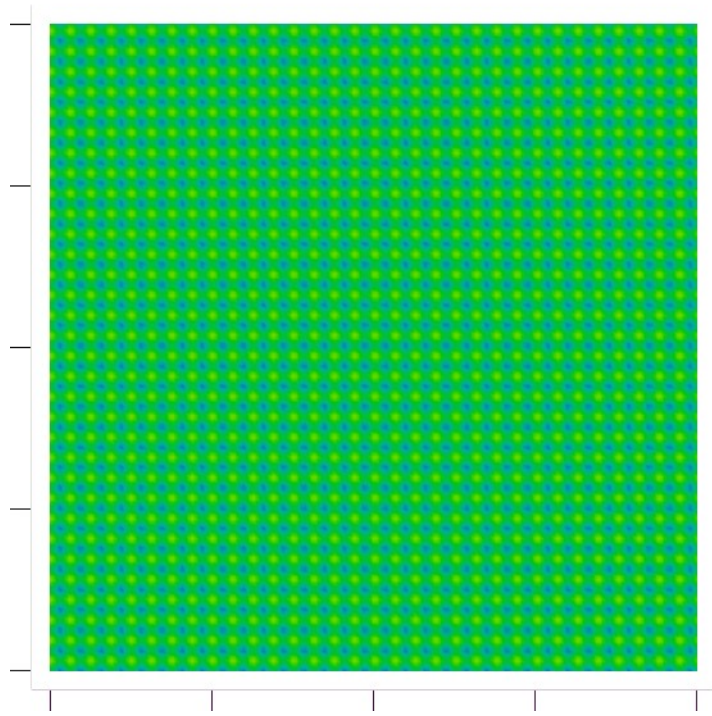
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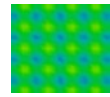
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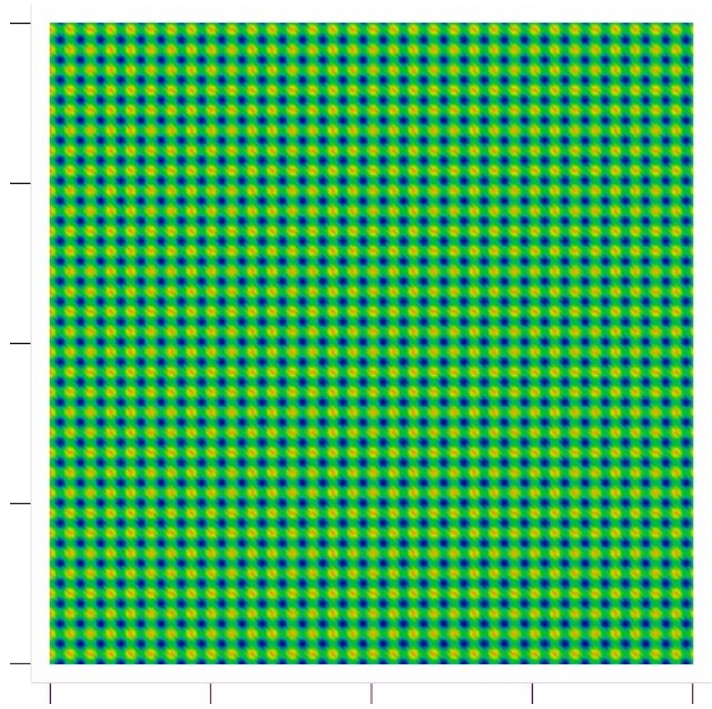
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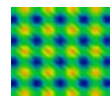
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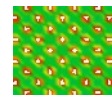
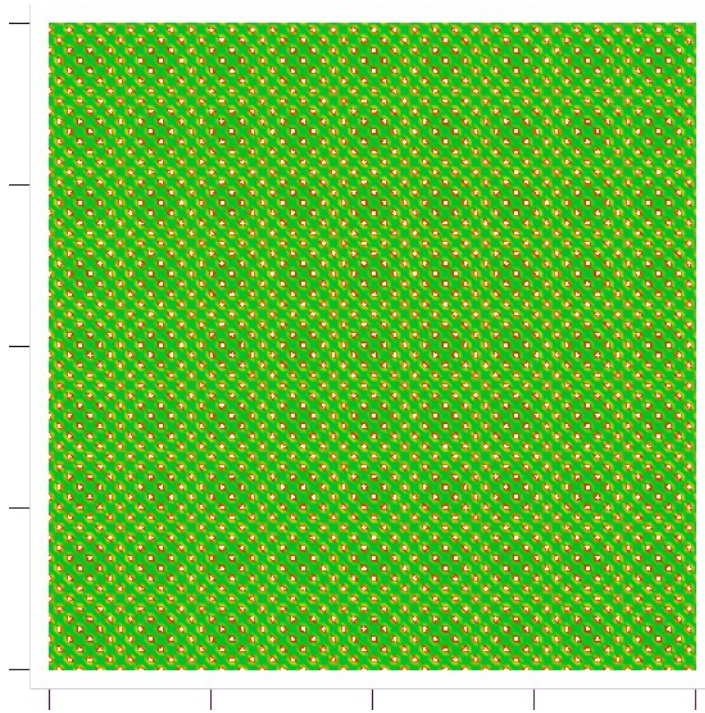
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oF16

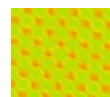
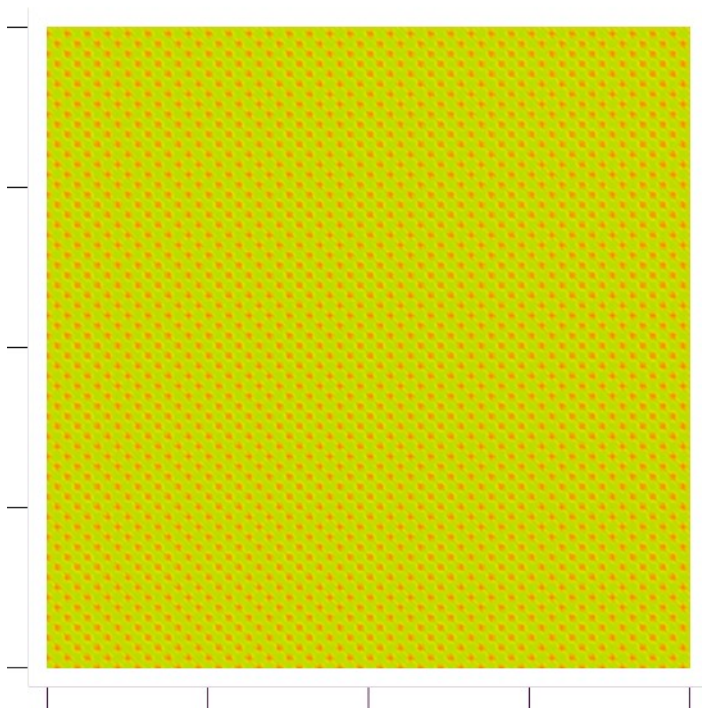


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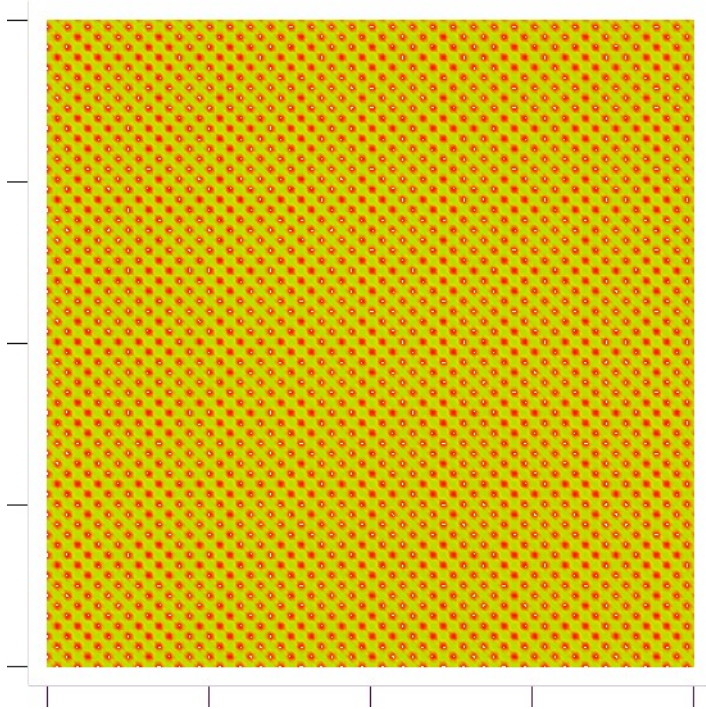
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oF128

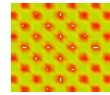


mP4

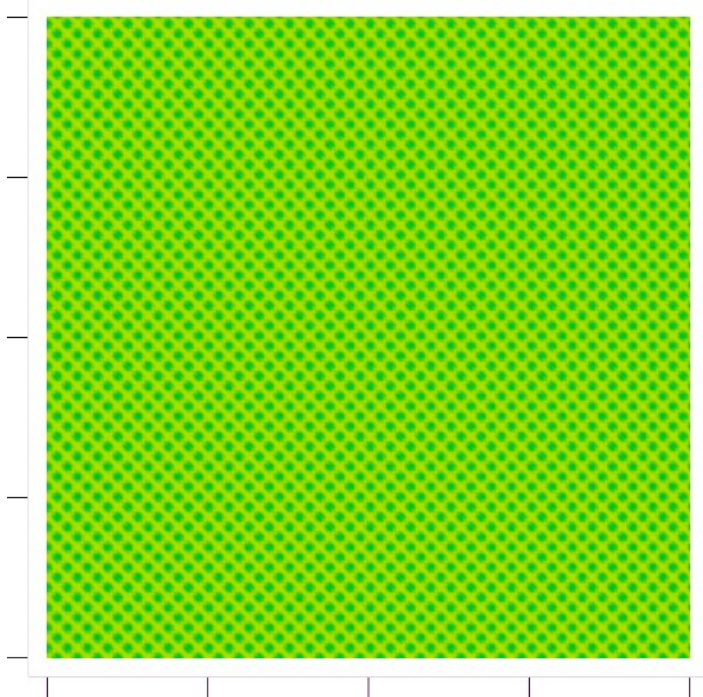
mP4



mP64



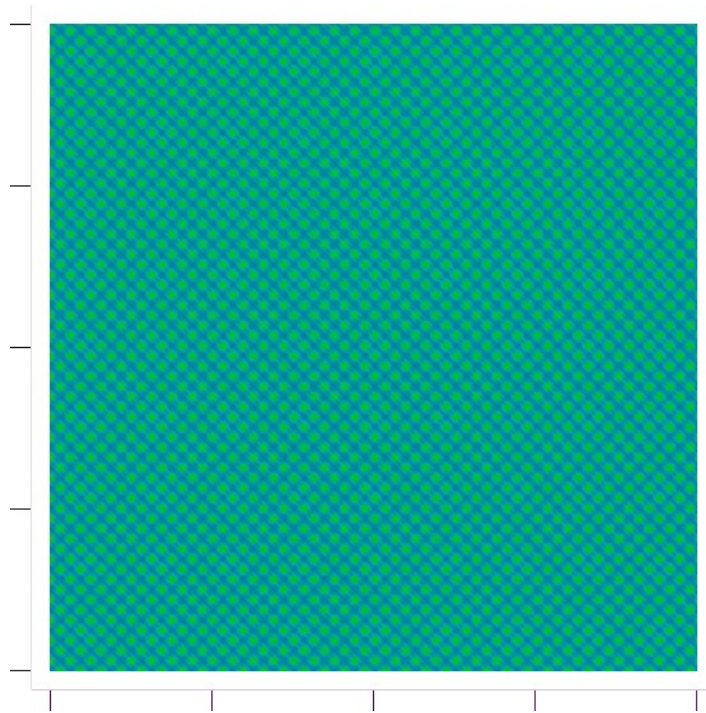
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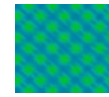
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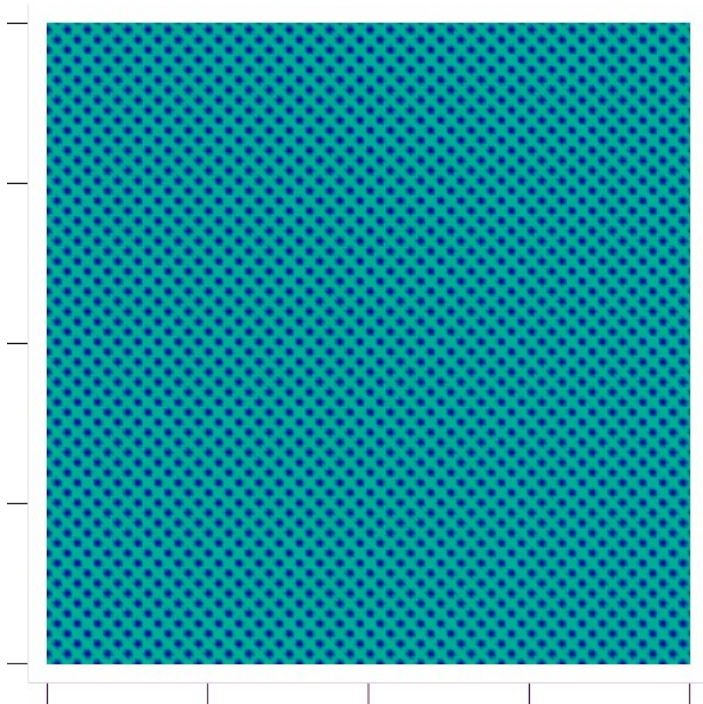
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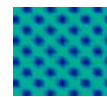
mI2



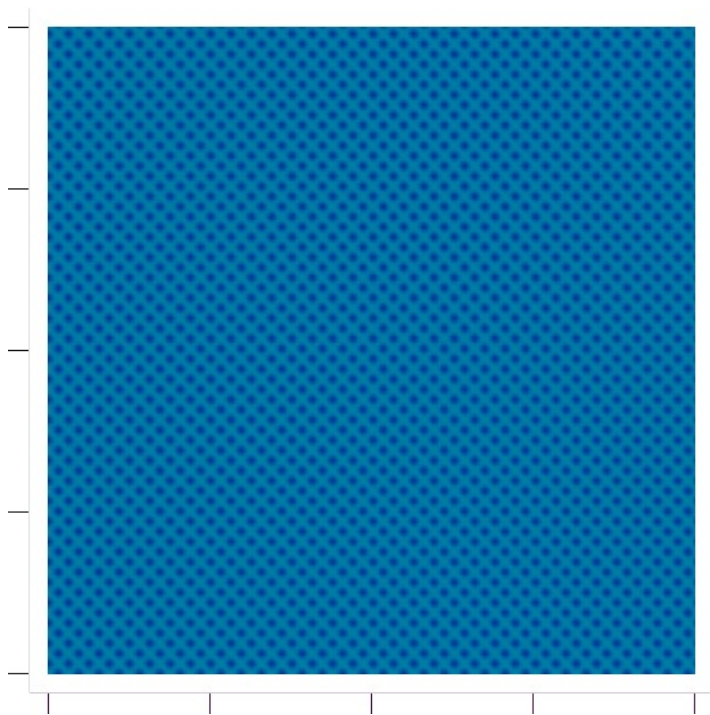
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mI4



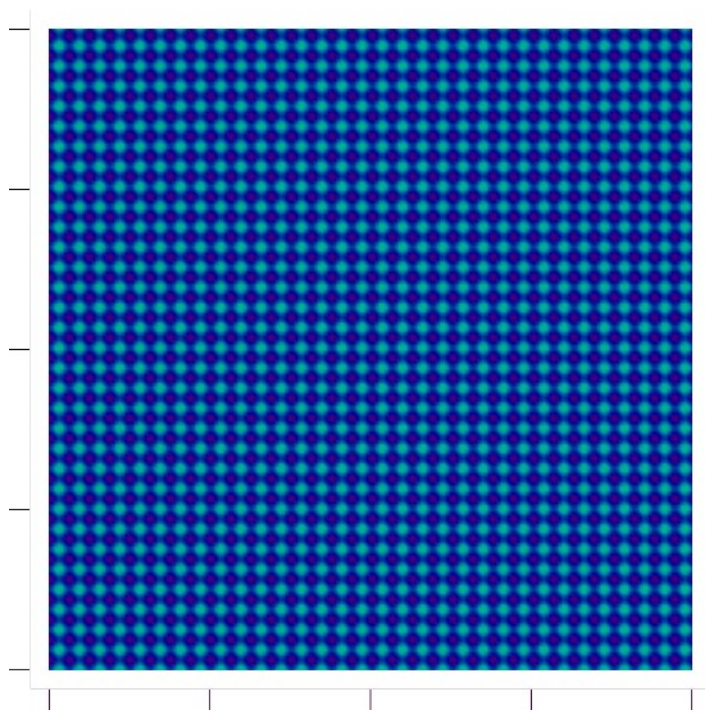
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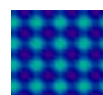
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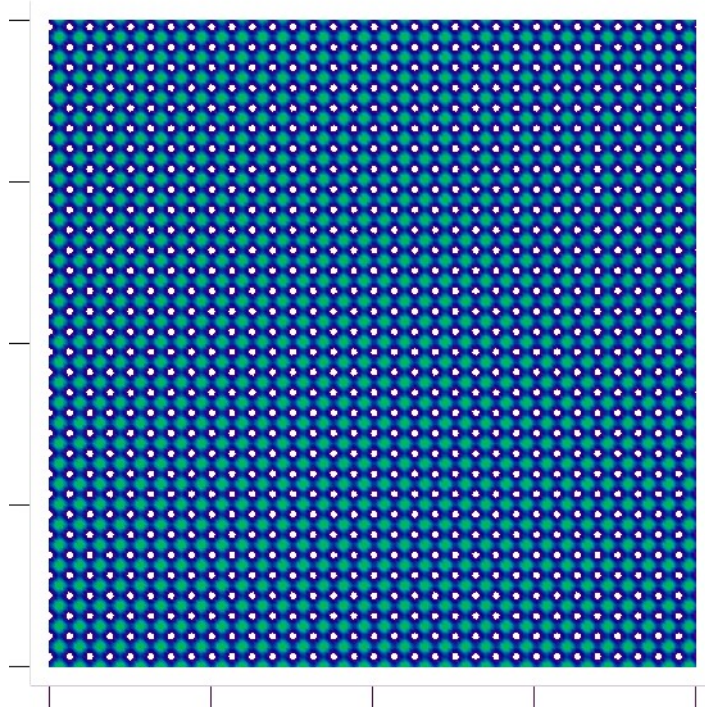
mI12



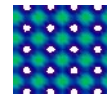
mC4



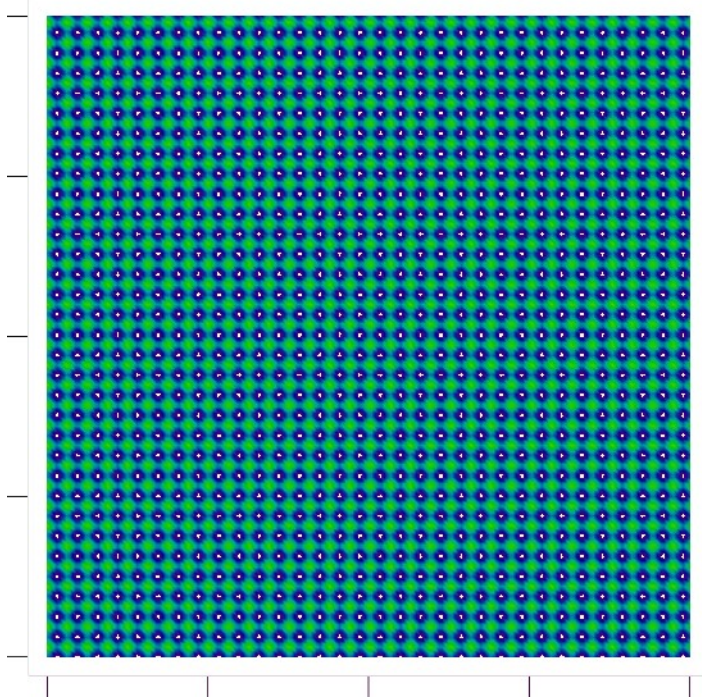
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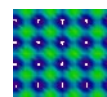
mC6



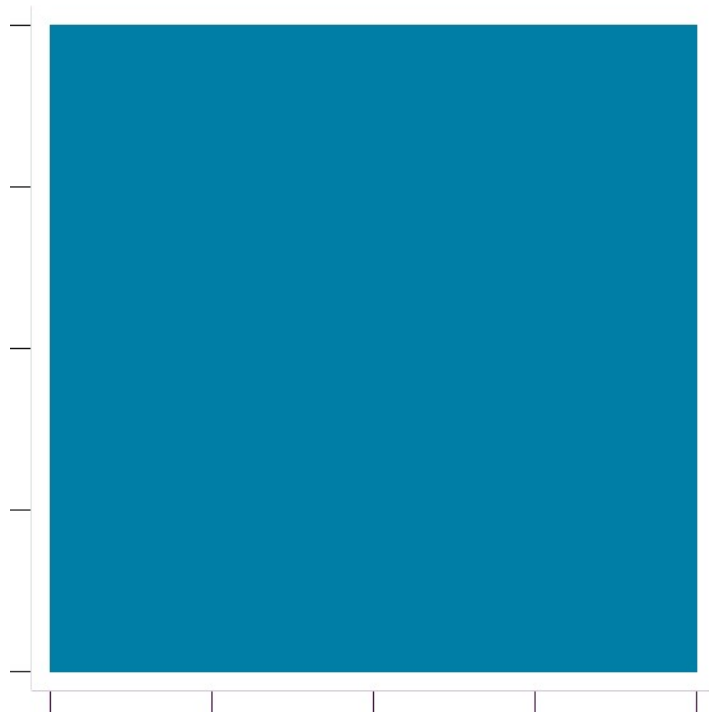
mC6



mC16



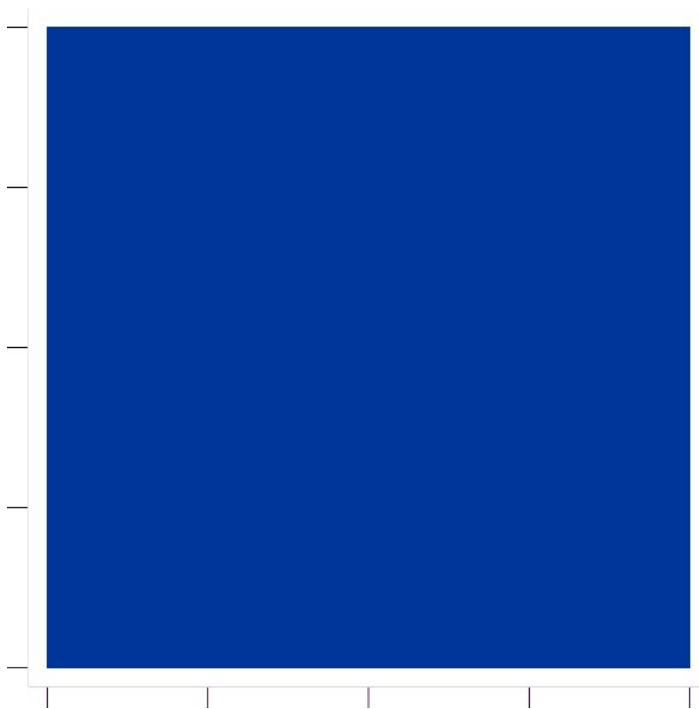
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hP1



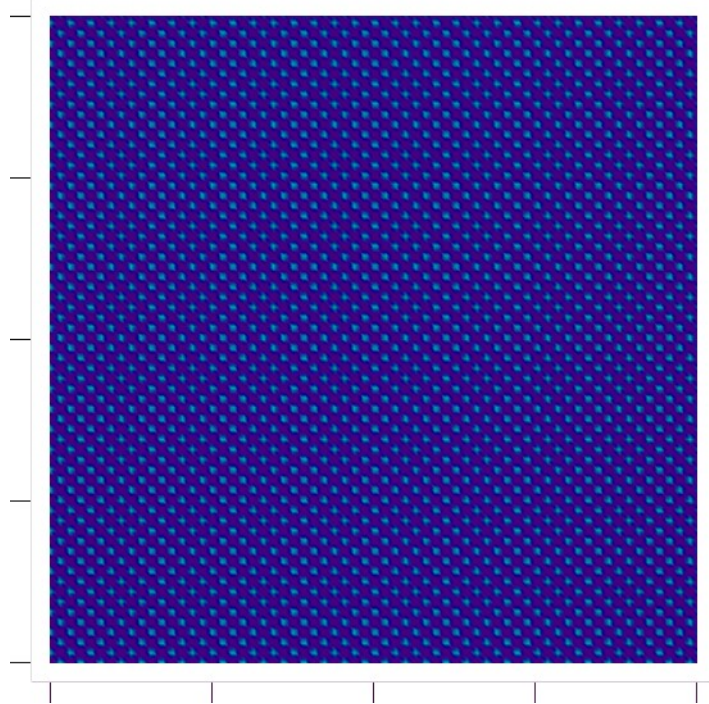
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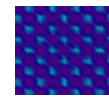
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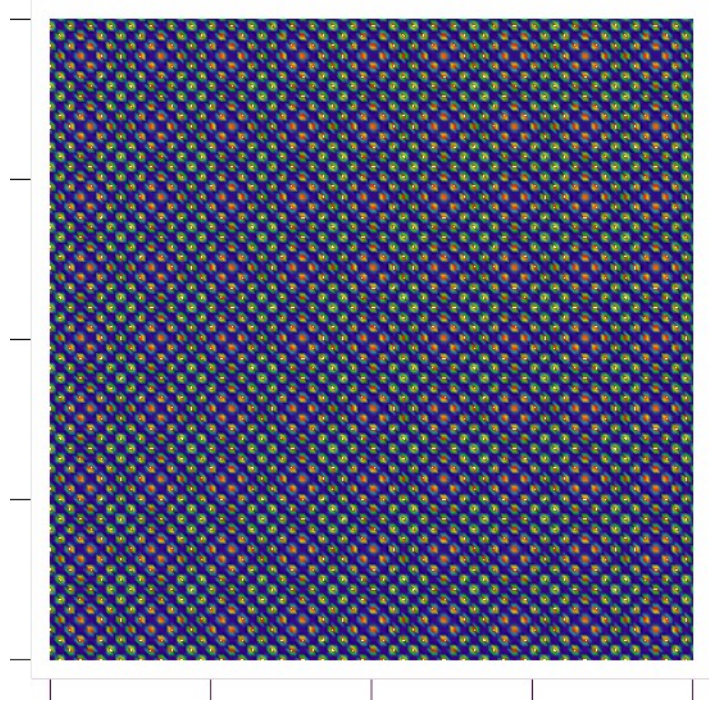
hP2



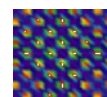
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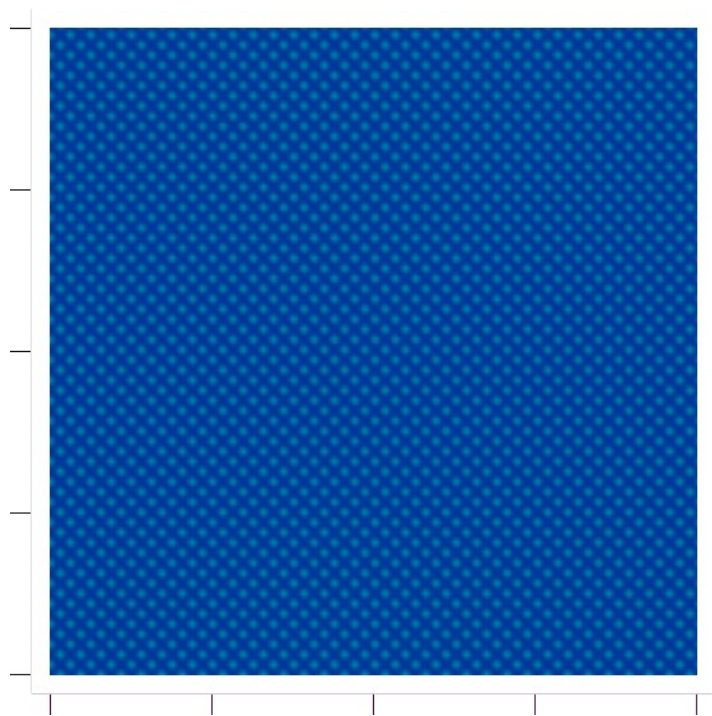
hP3



hP4



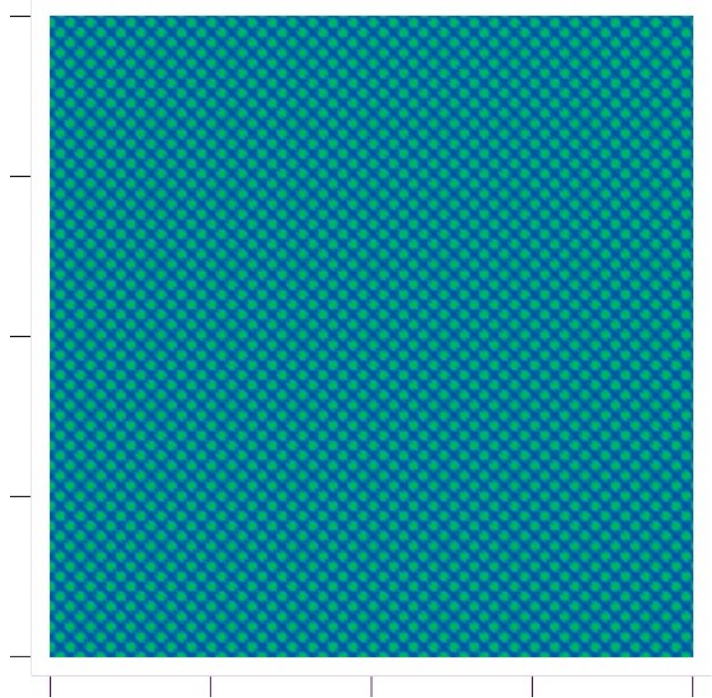
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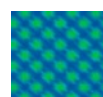
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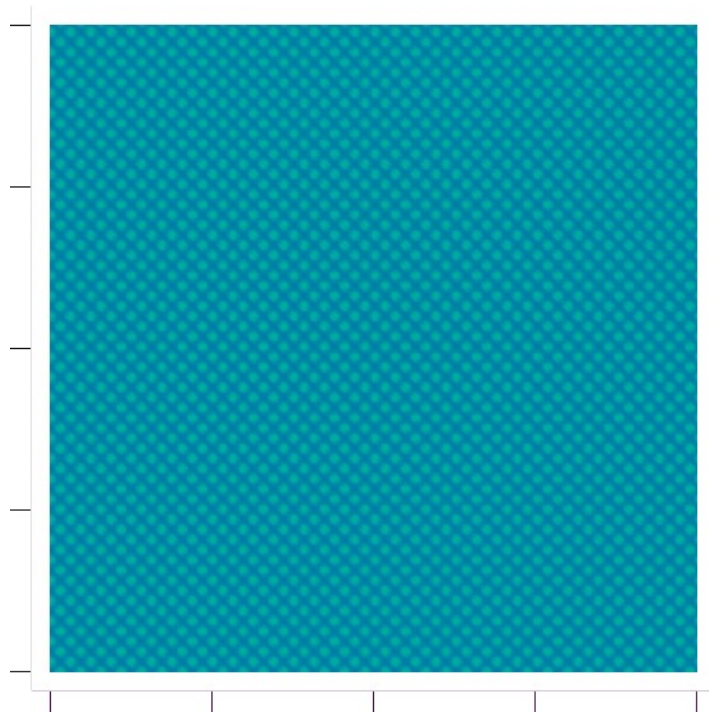
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hP9



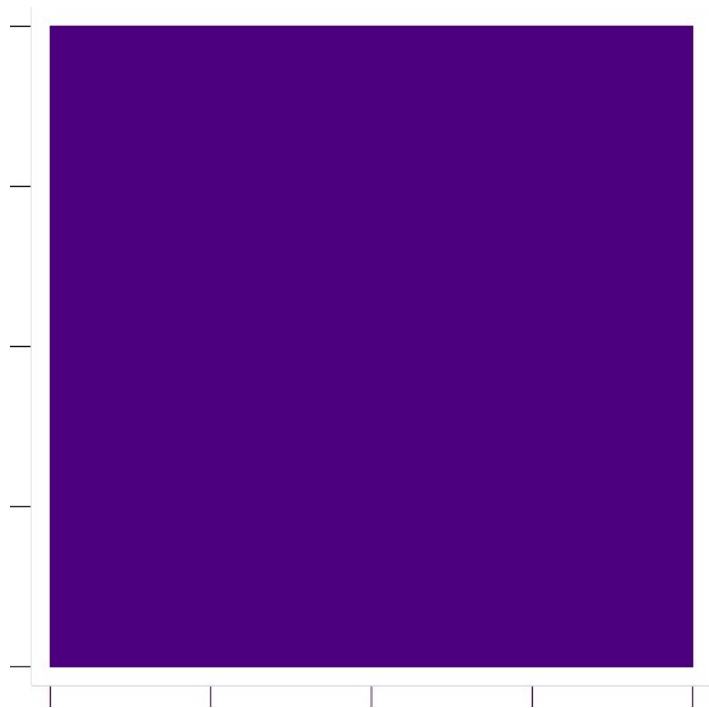
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hP14



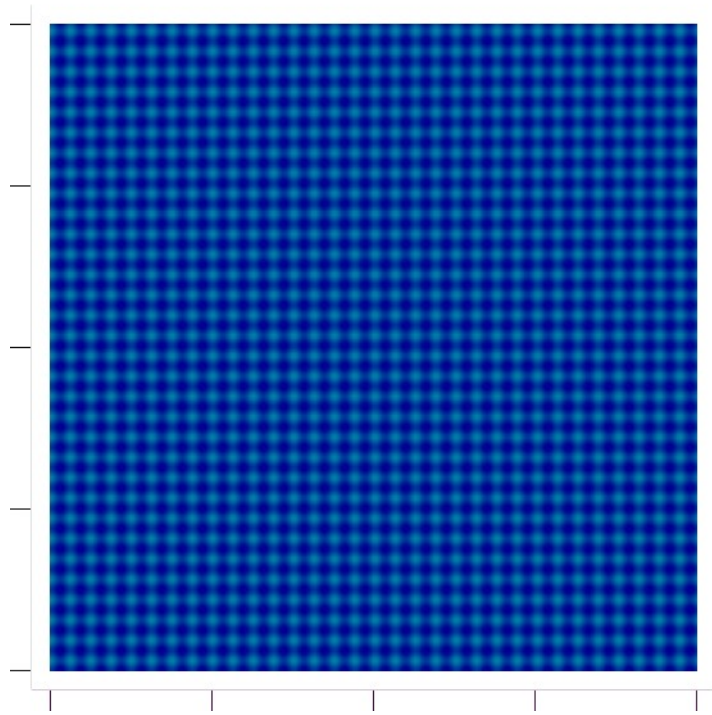
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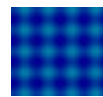
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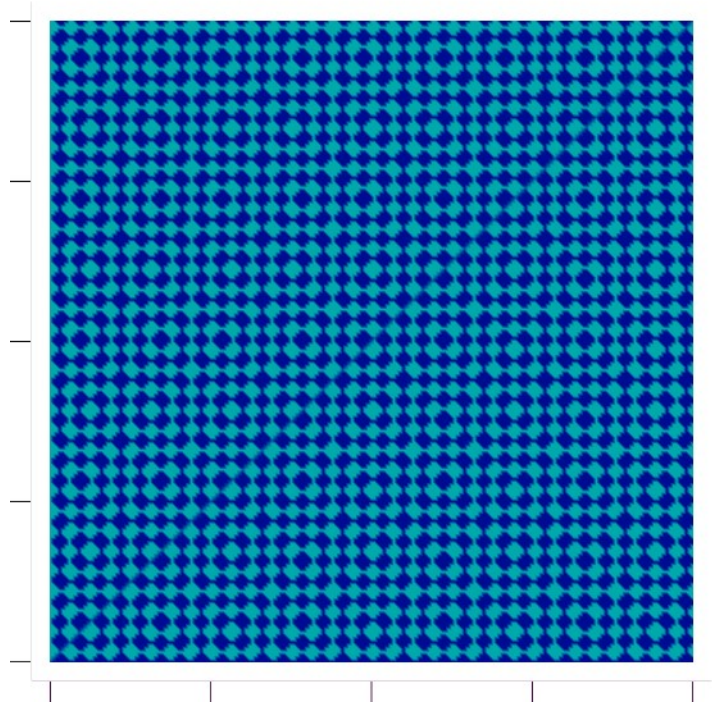
hR1



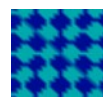
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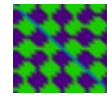
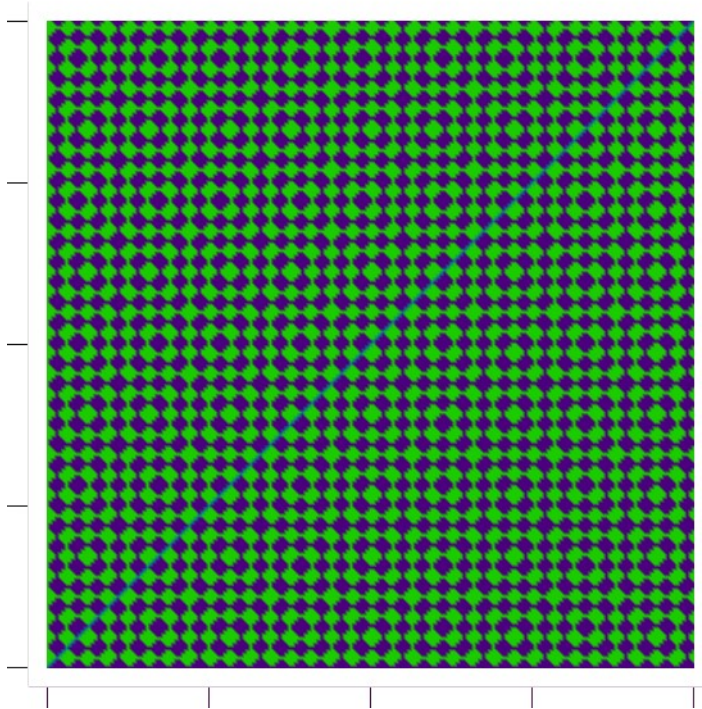
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hR3

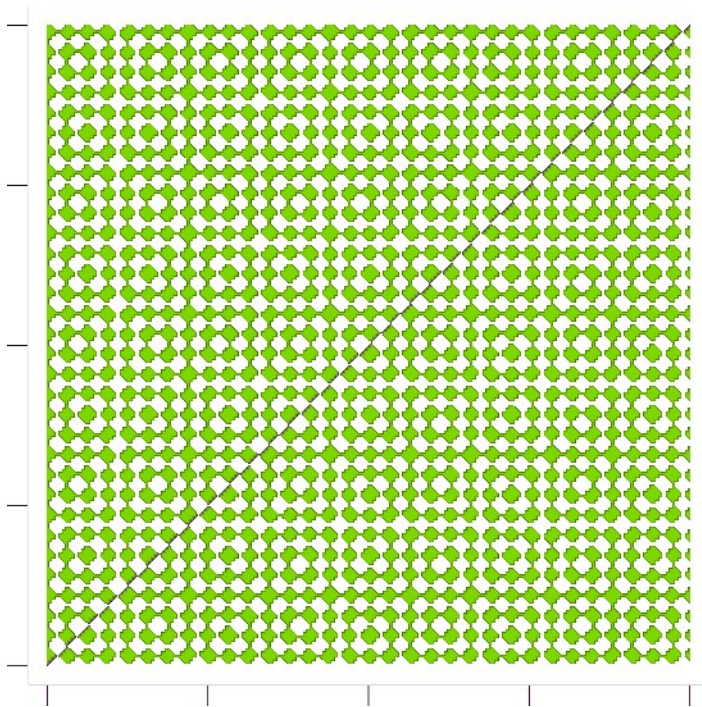


hR3



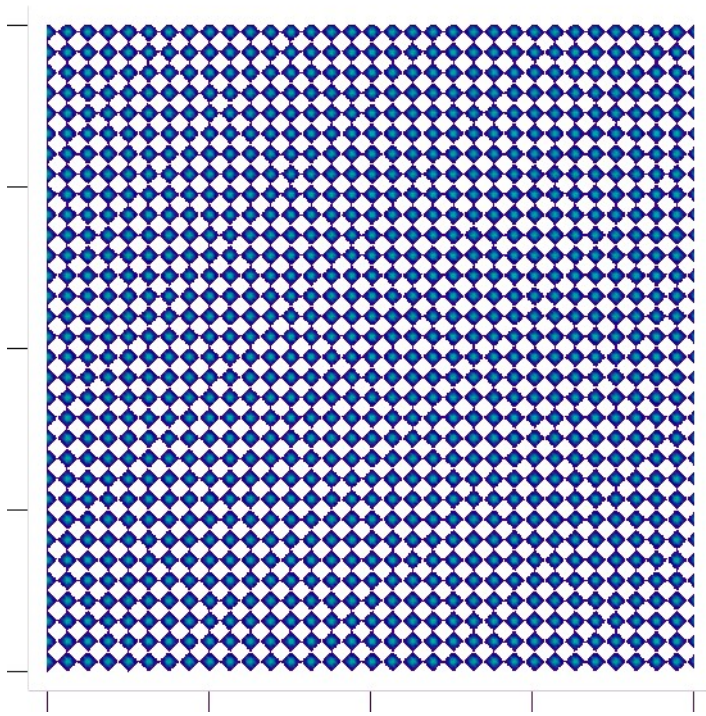
hR6

hR6

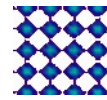


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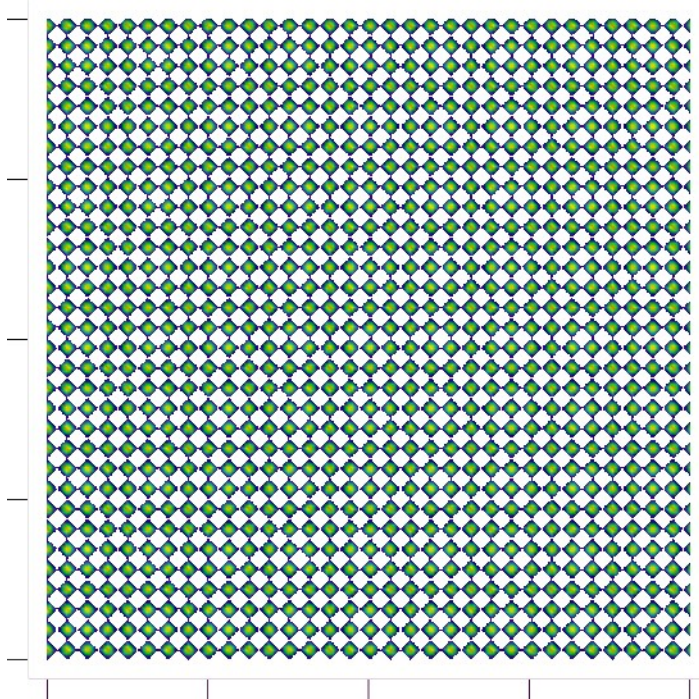
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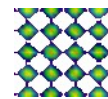
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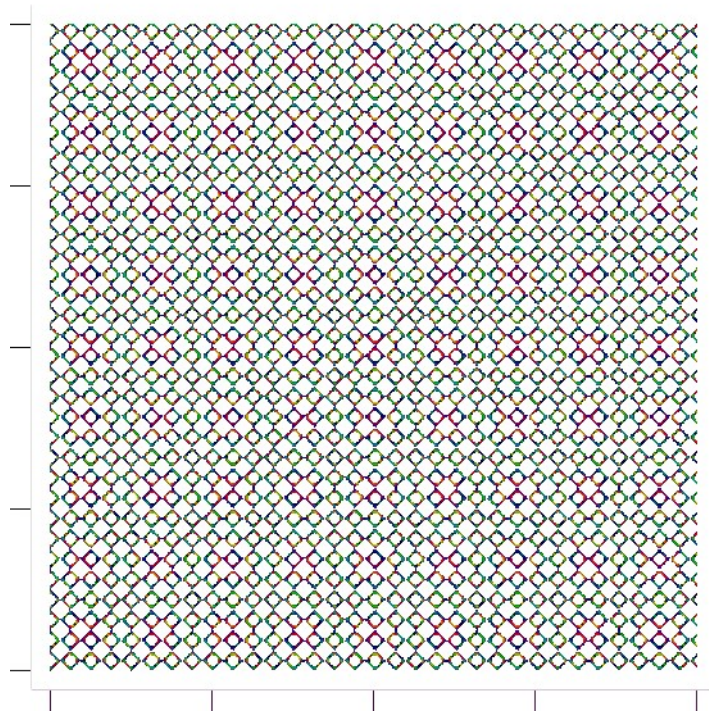
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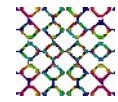
hR16



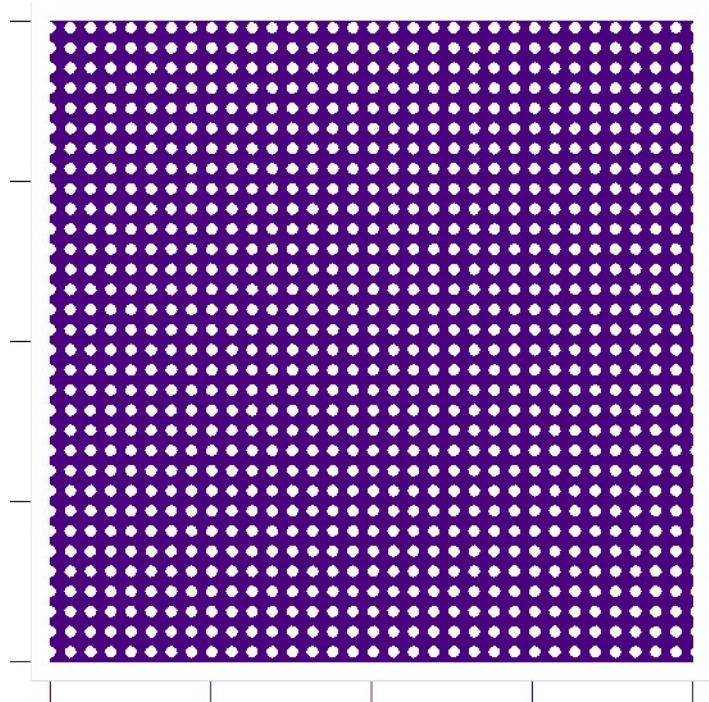
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hR18



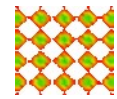
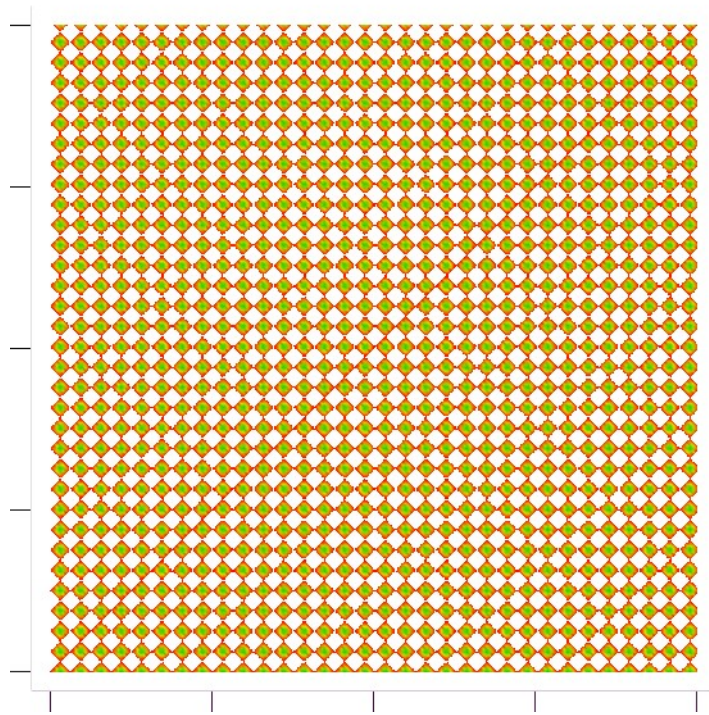
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hR24

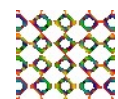
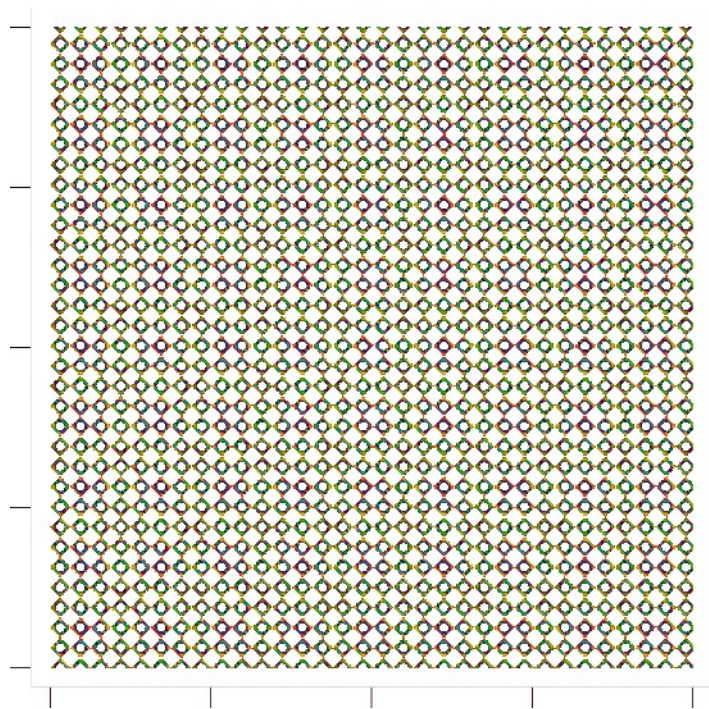


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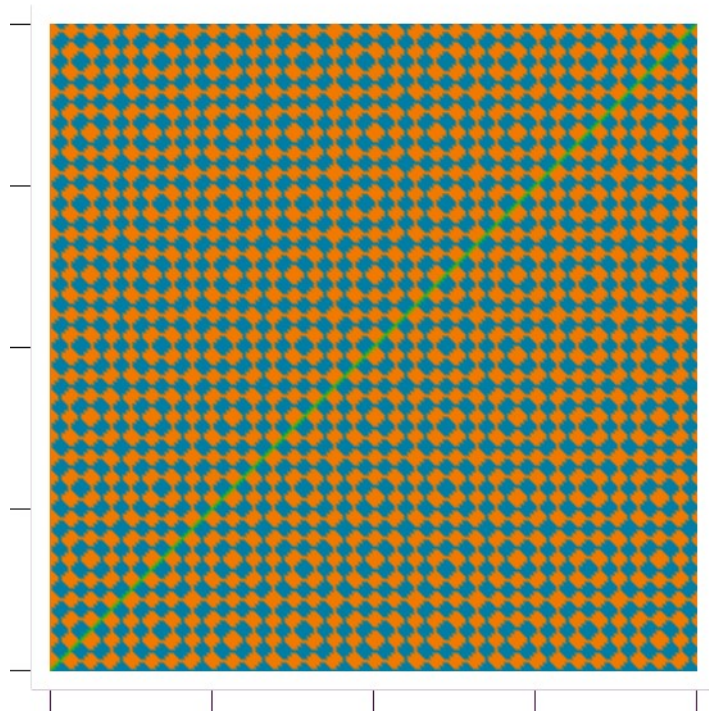
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hR100

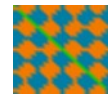


hR106

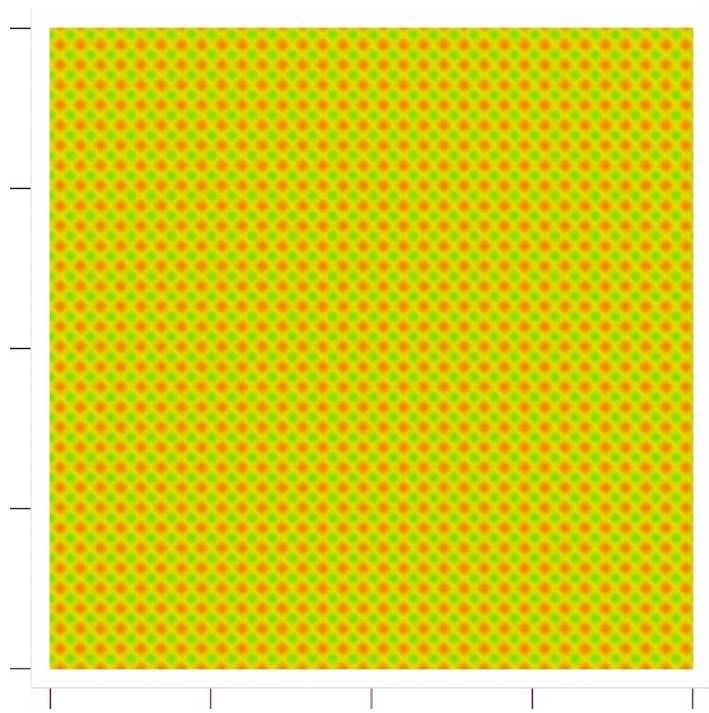
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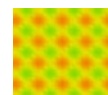
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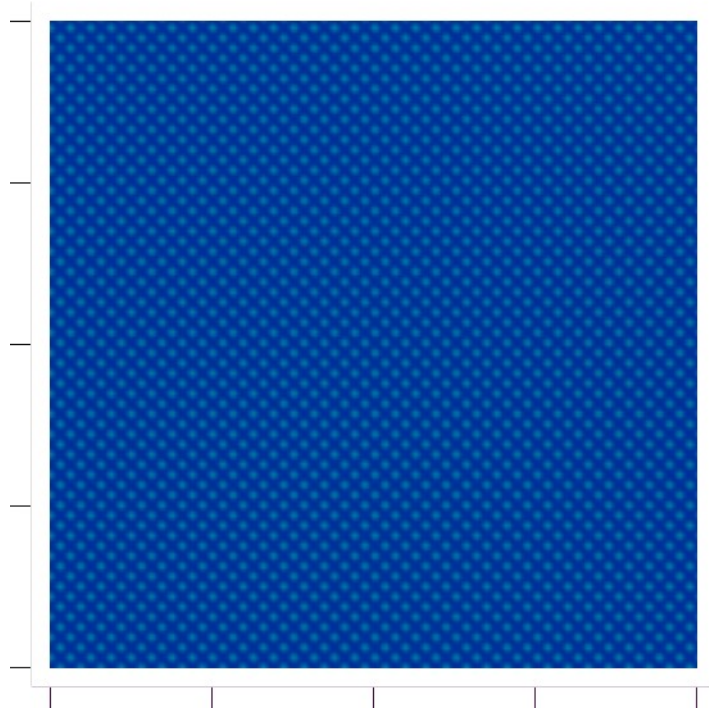
aP90



aI6

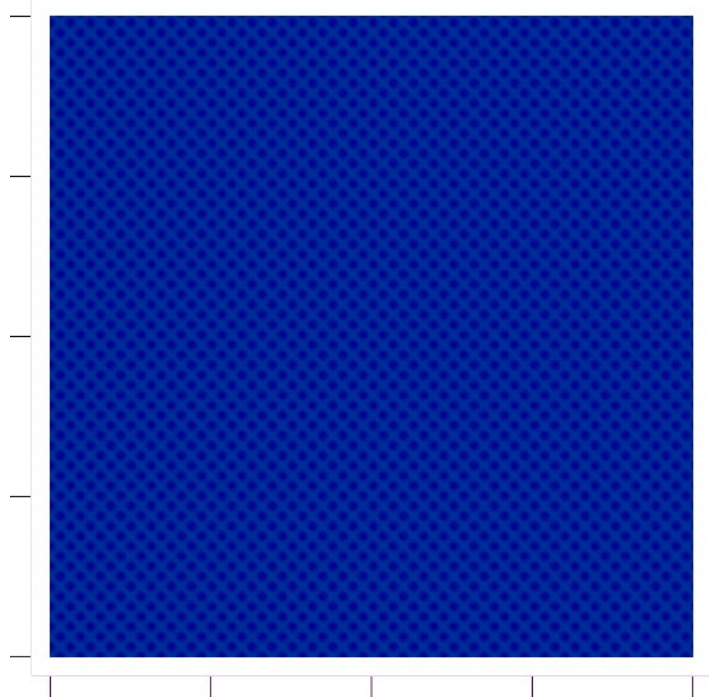


aI6



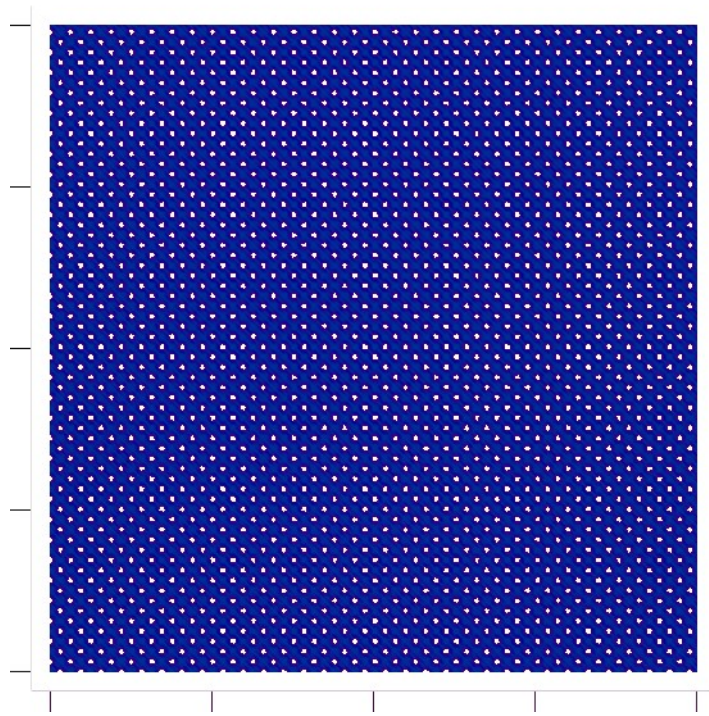
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HI

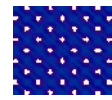


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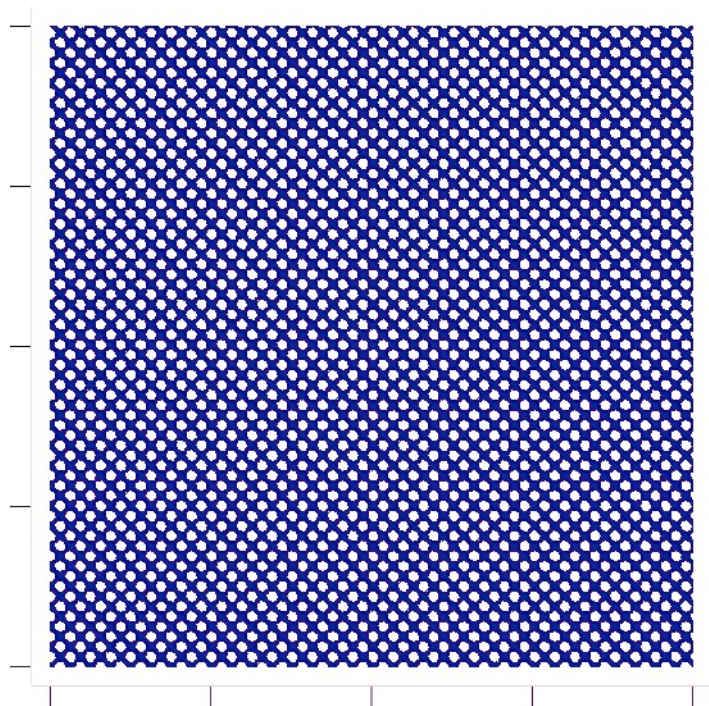
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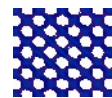
HIII



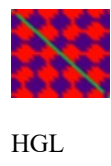
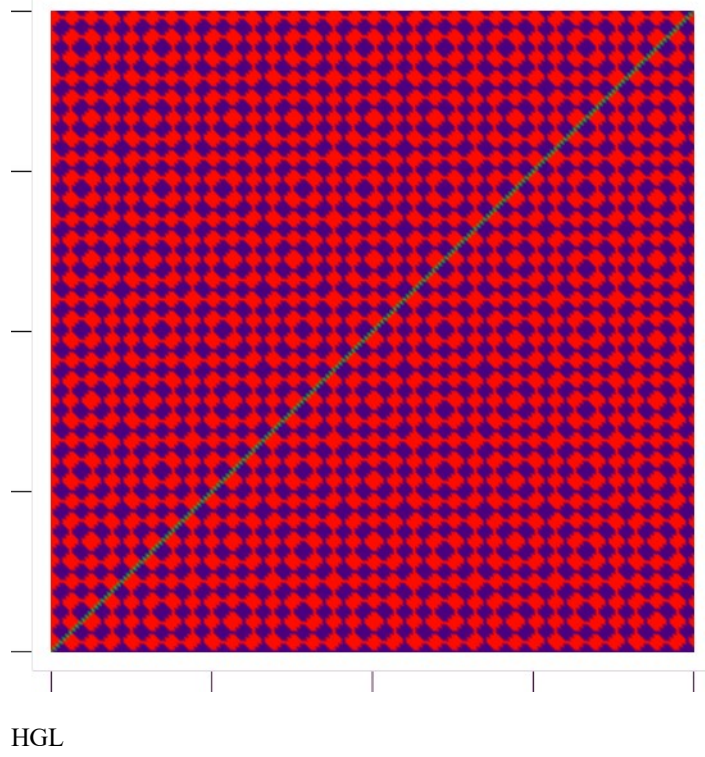
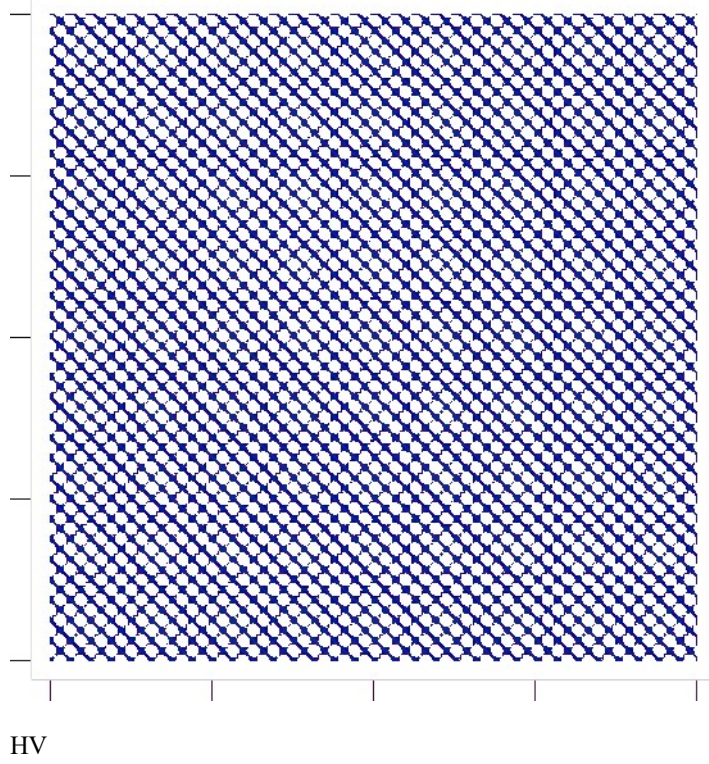
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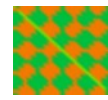
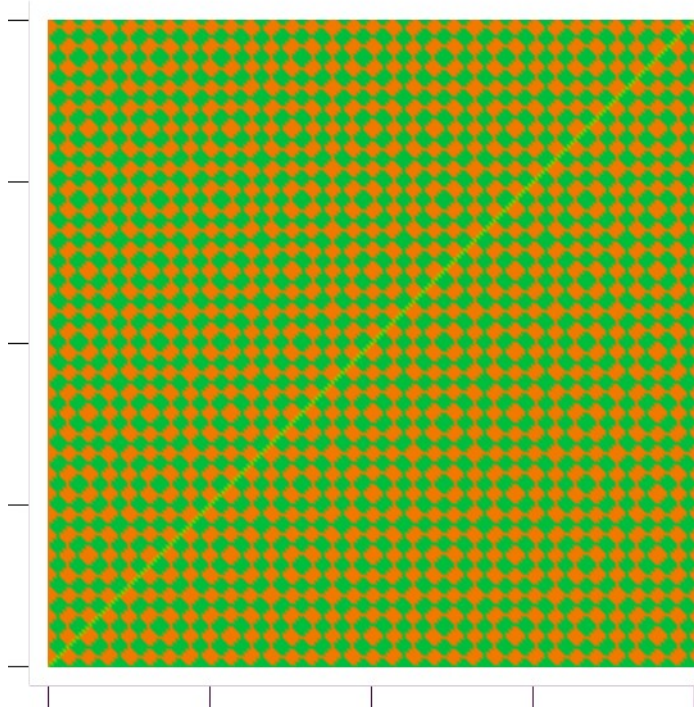


HIV



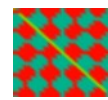
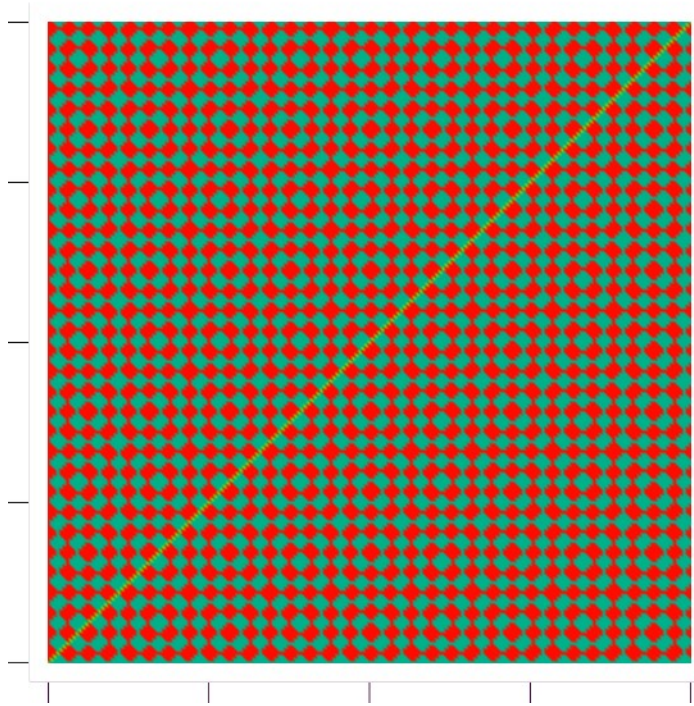
HIV





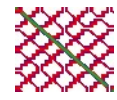
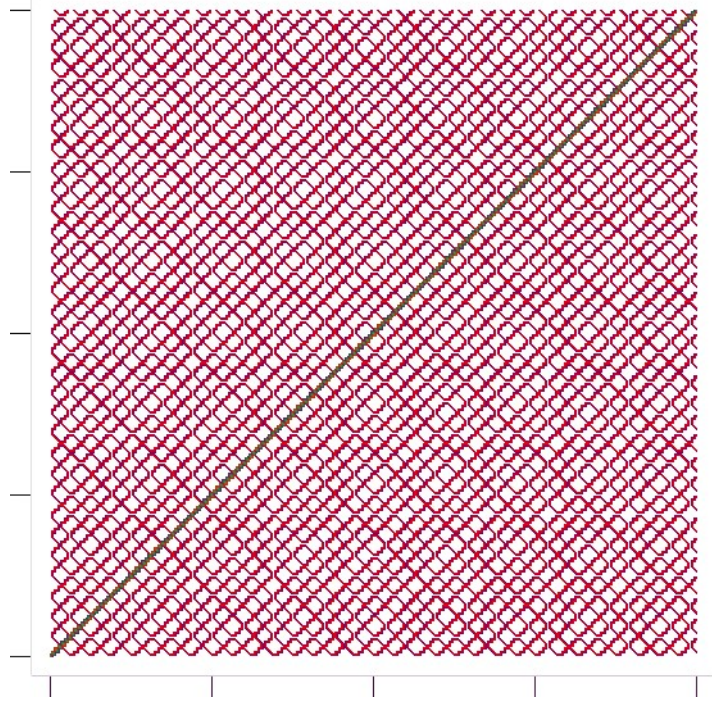
HGLL

HGLL



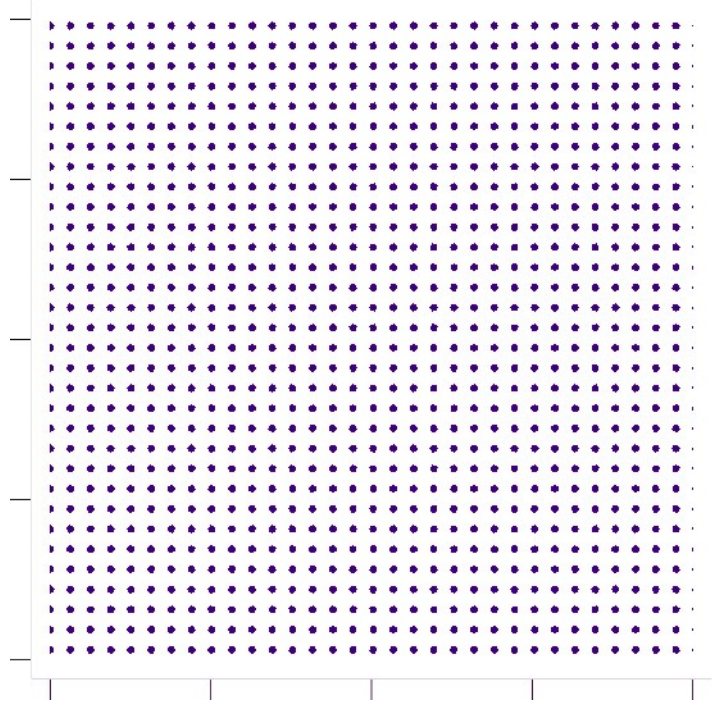
HGD

HGD



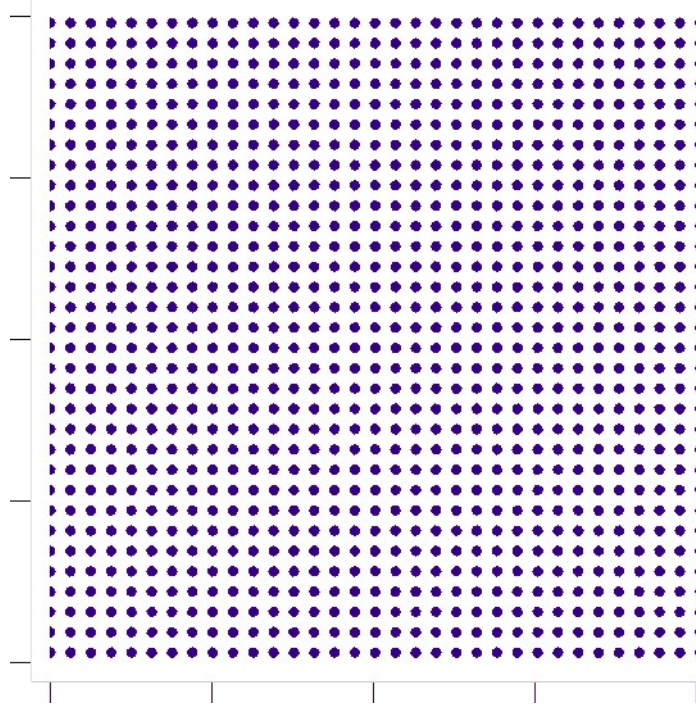
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ML



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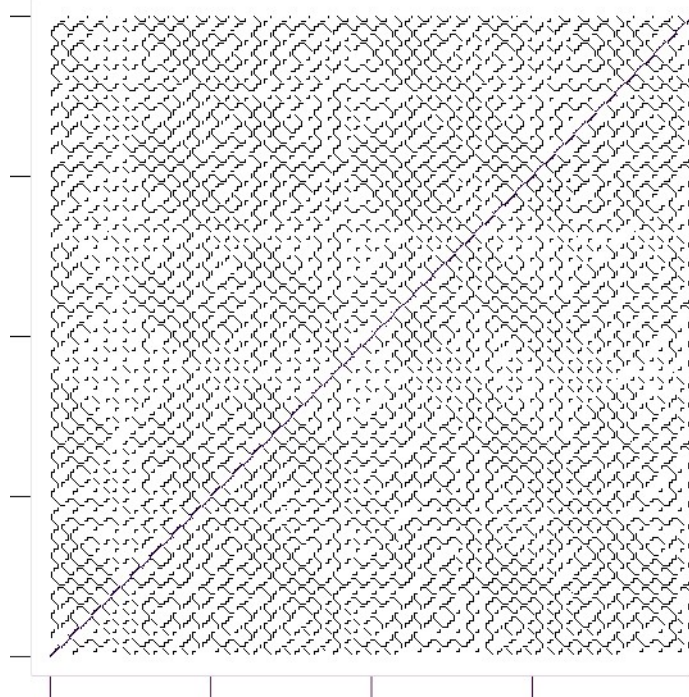
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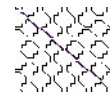
u2



u2



Melt



Melt