

**MEET
me
TONIGHT**
FACCIA A FACCIA CON LA RICERCA



LA NOTTE DEI RICERCATORI
28 Settembre 2012

SCIENZA E SOCIETA'

ARTE E CREATIVITA'

FOOD

GIOCHI E SPORT

ENERGIA E SOSTENIBILITA'

IN CATTOLICA VA IN SCENA LA SCIENZA



dalle **15.00** alle **24.00**

Via Musei 41, Brescia

Ore 15.00 *Visite*

LA FISICA IN LABORATORIO

"Chi ricerca trova": percorso guidato alla scoperta degli effetti quantistici di luce e materia

Ore 17.00 *Conferenza*

SOTTO LE STELLE DELLA MATEMATICA

DALLA TASSELLAZIONE DI PENROSE AI QUASICRISTALLI

ALESSANDRO MUESTI, Università Cattolica del Sacro Cuore

Aula Magna, Via Musei 41

Ore 18.00 *Spettacolo interattivo*

LA MATEMATICA PIASTRELLA IL CORTILE

Il pubblico costruisce un pavimento di Penrose rispondendo a quiz matematici

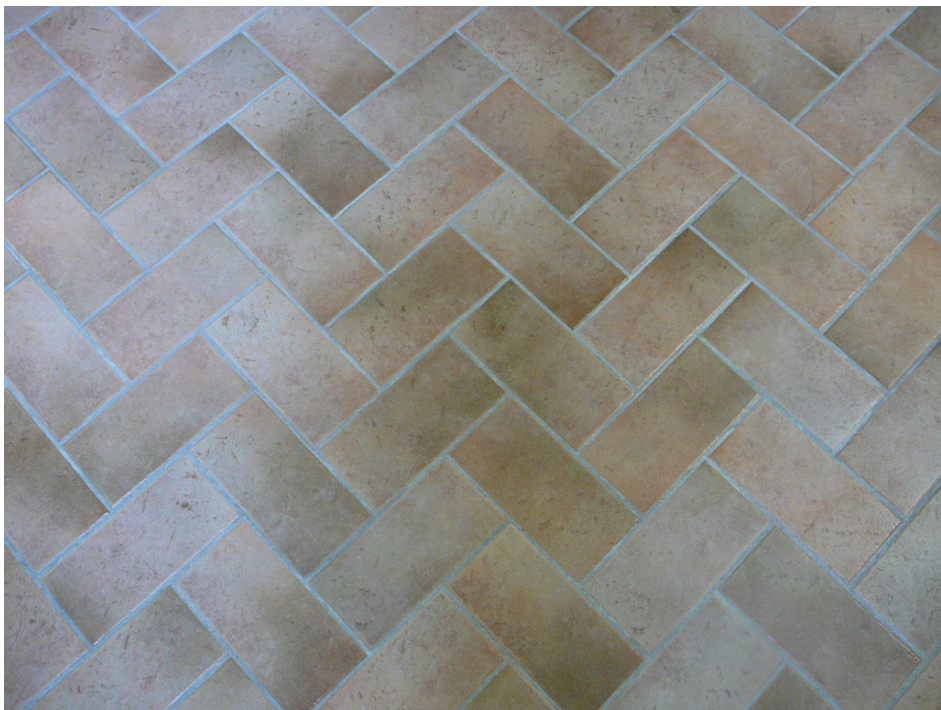
Ore 19.00

Happy hour e intrattenimento musicale a cura dell' ASSOCIAZIONE TERZA ARMONICA

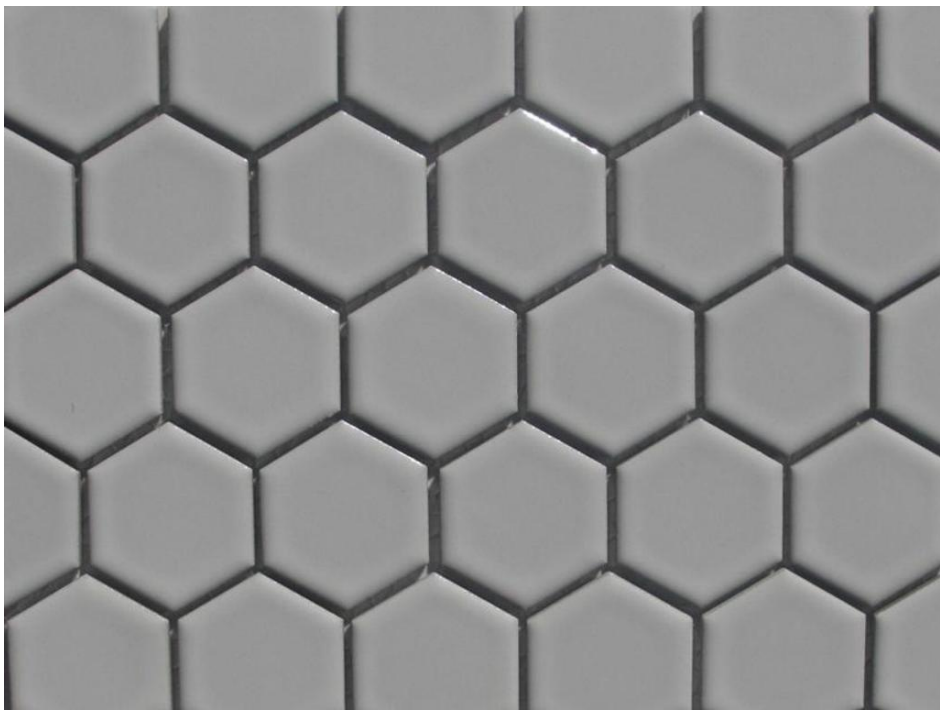


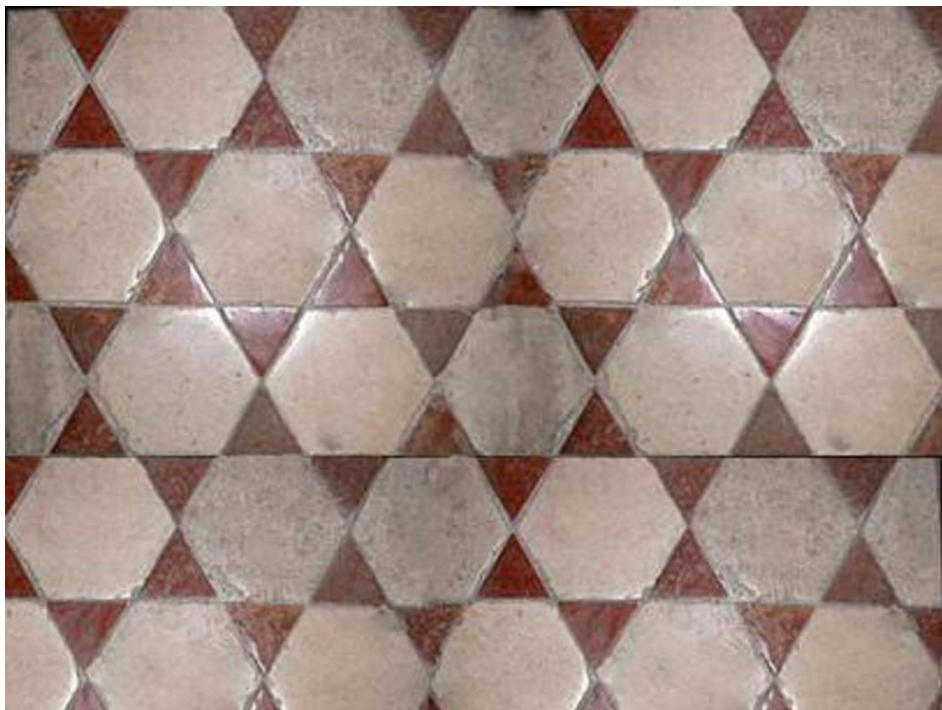








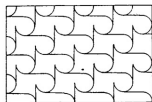




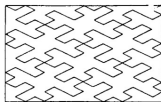
17 17 17 17 17 17

17

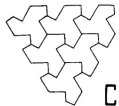
17 17 17 17 17 17



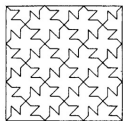
C_1



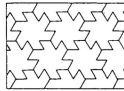
C_2



C_3



C_4



C_5



$D_{1,kk}$



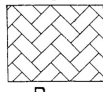
$D_{1,gg}$



$D_{1,kg}$



$D_{2,kkkk}$



$D_{2,gggg}$



$D_{2,kkgg}$



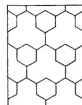
$D_{2,kgkg}$



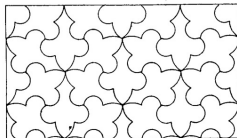
D_4^*



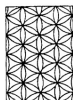
D_4^o



D_3^*



D_3^o



D_6



George (György) Pólya, 1887–1985



George (György) Pólya, 1887–1985

“Se non riesci a risolvere un problema, ce ne sarà uno più facile che riesci a risolvere: trovalo.”



George (György) Pólya, 1887–1985

“Se non riesci a risolvere un problema, ce ne sarà uno più facile che riesci a risolvere: trovalo.”

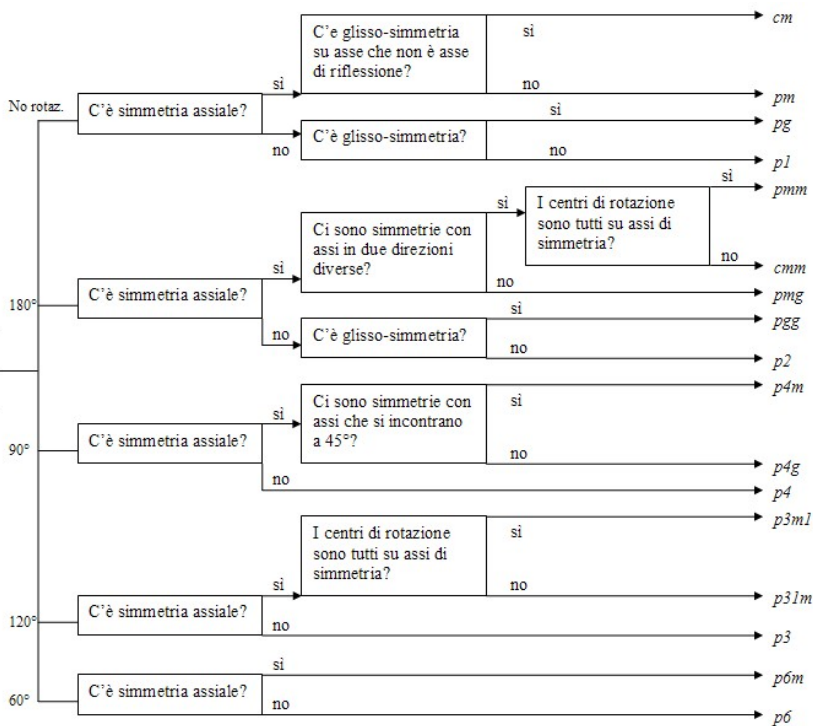
“How I need a drink, alcoholic of course, after the heavy chapters involving quantum mechanics.”



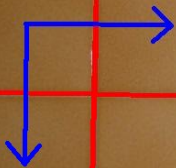
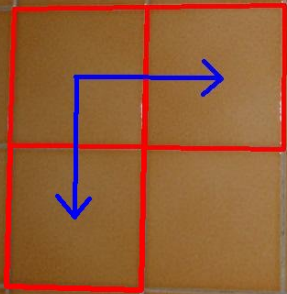
George (György) Pólya, 1887–1985

“Se non riesci a risolvere un problema, ce ne sarà uno più facile che riesci a risolvere: trovalo.”

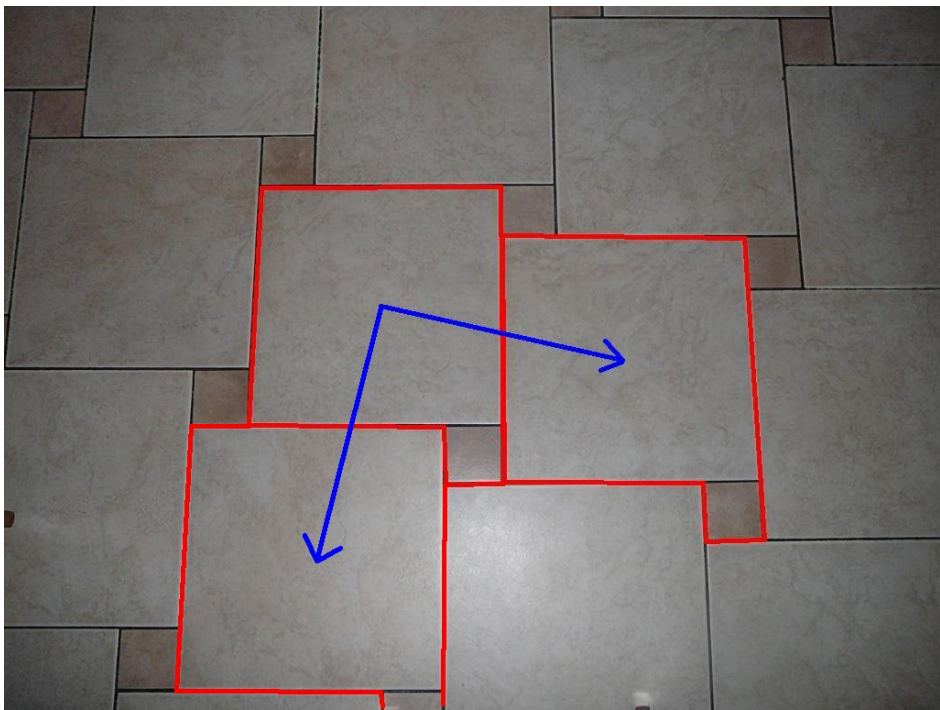
“How I need a drink, alcoholic of course, after the heavy chapters involving quantum mechanics.”



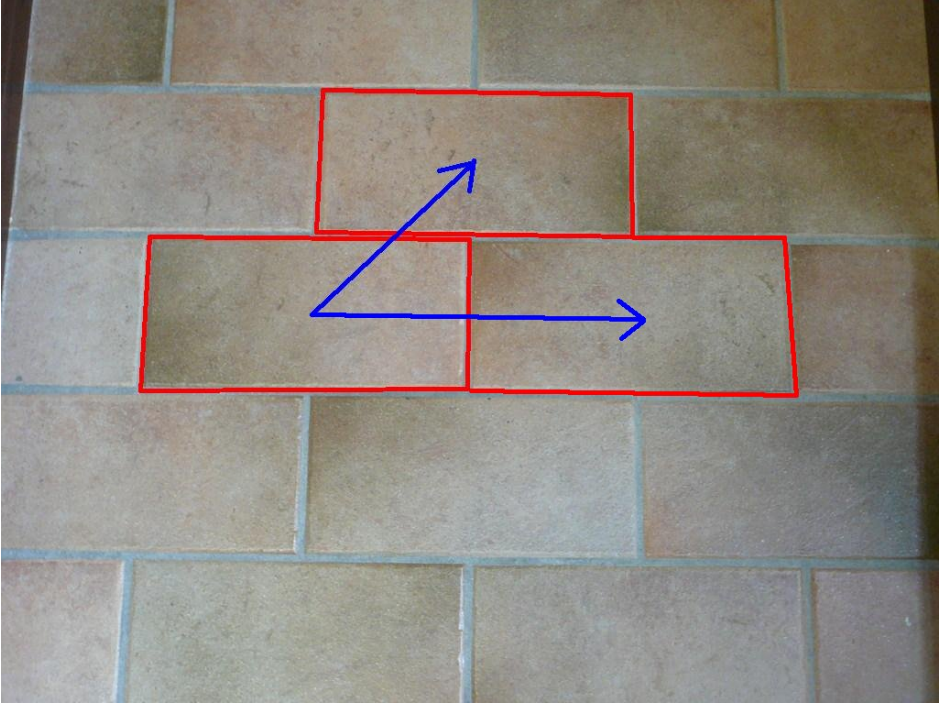


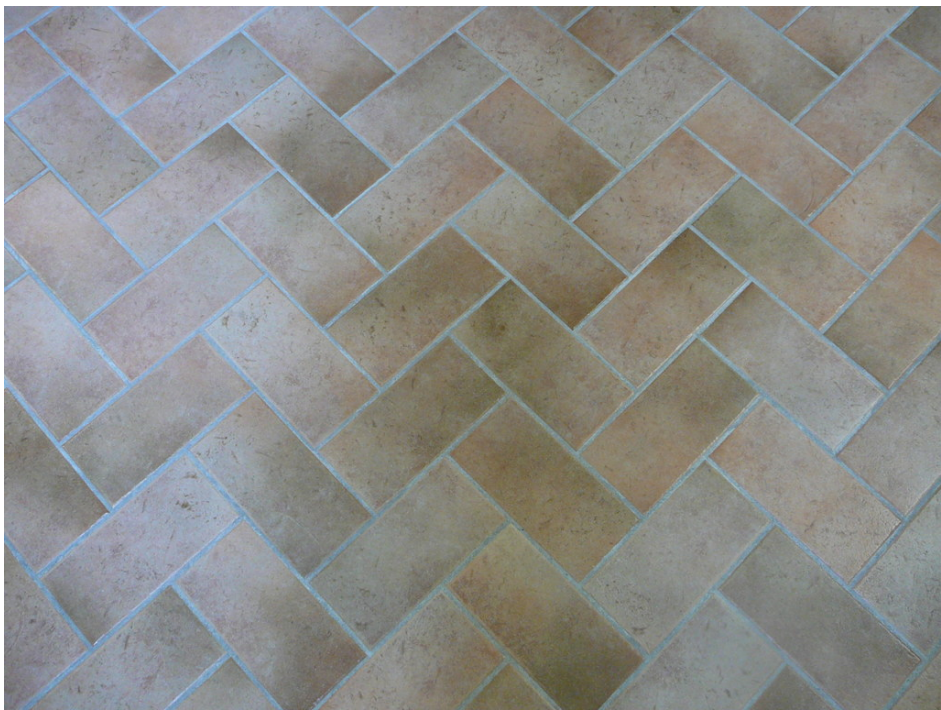


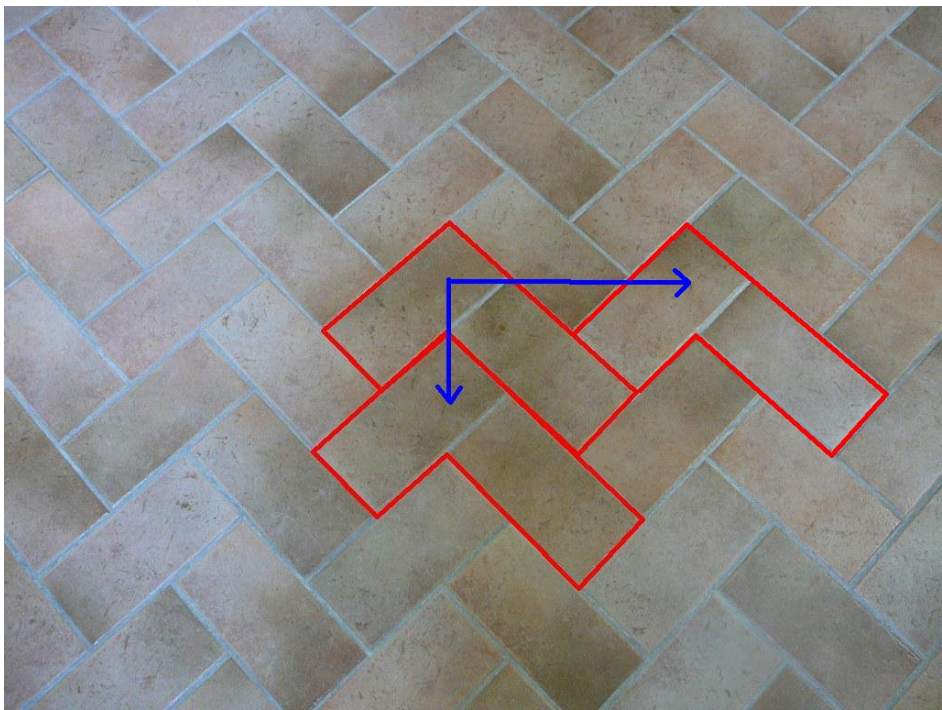


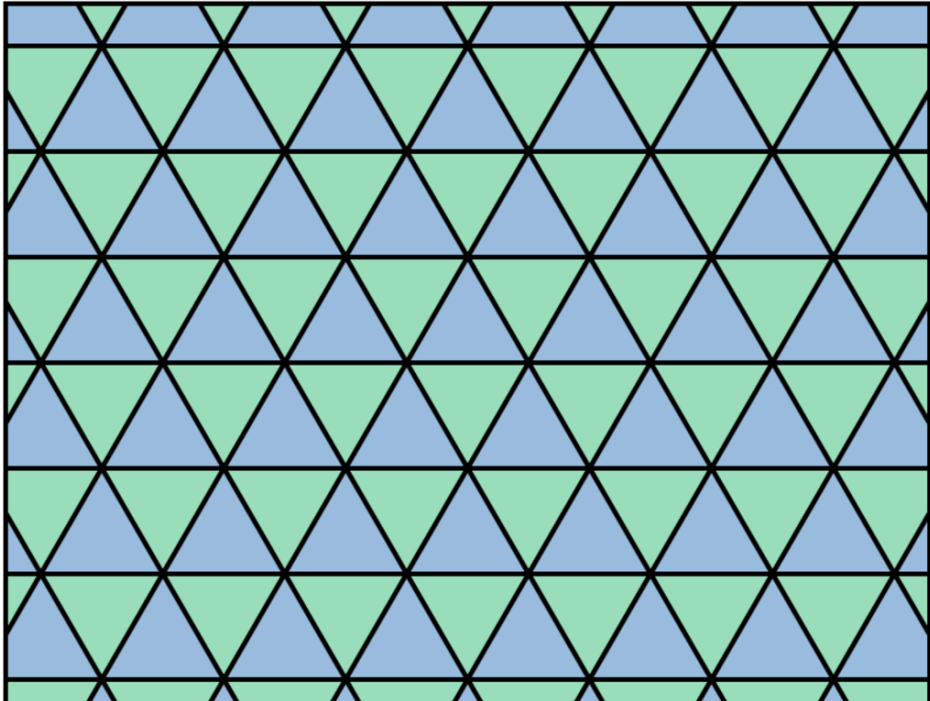


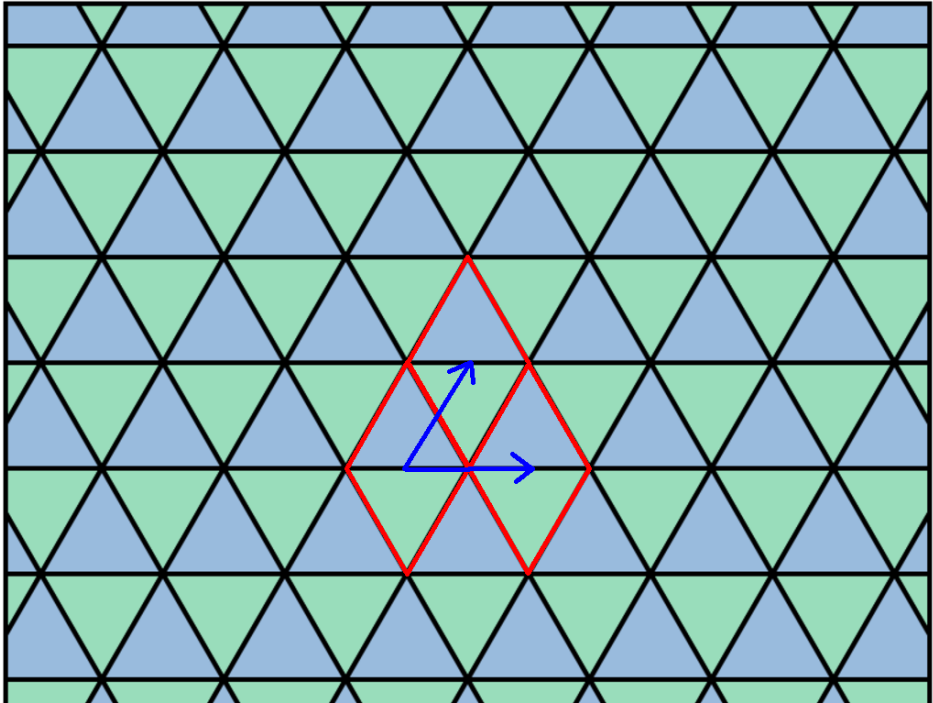


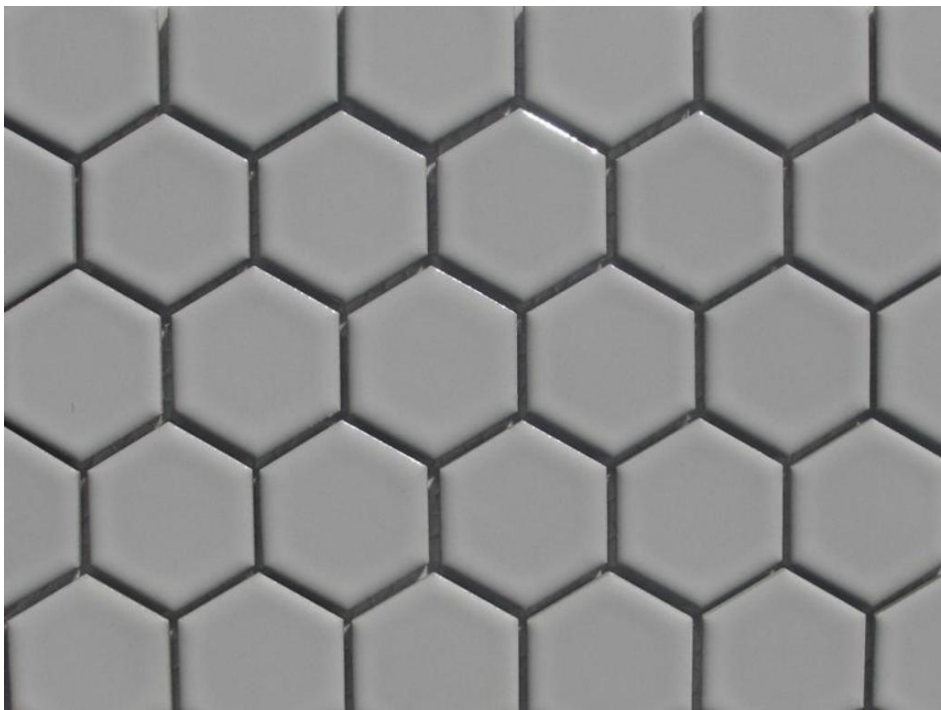


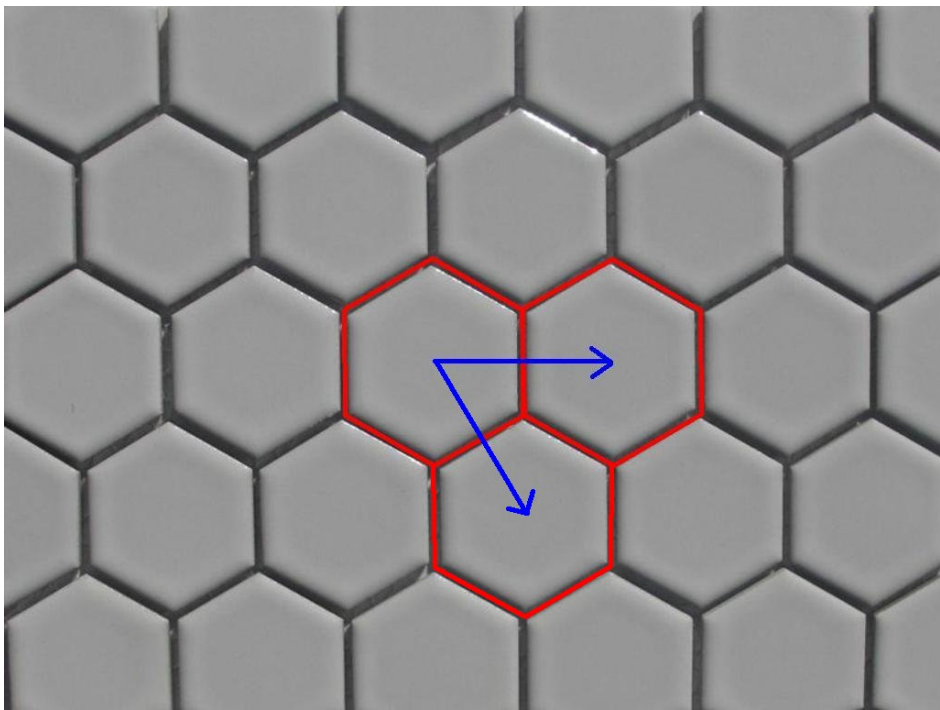


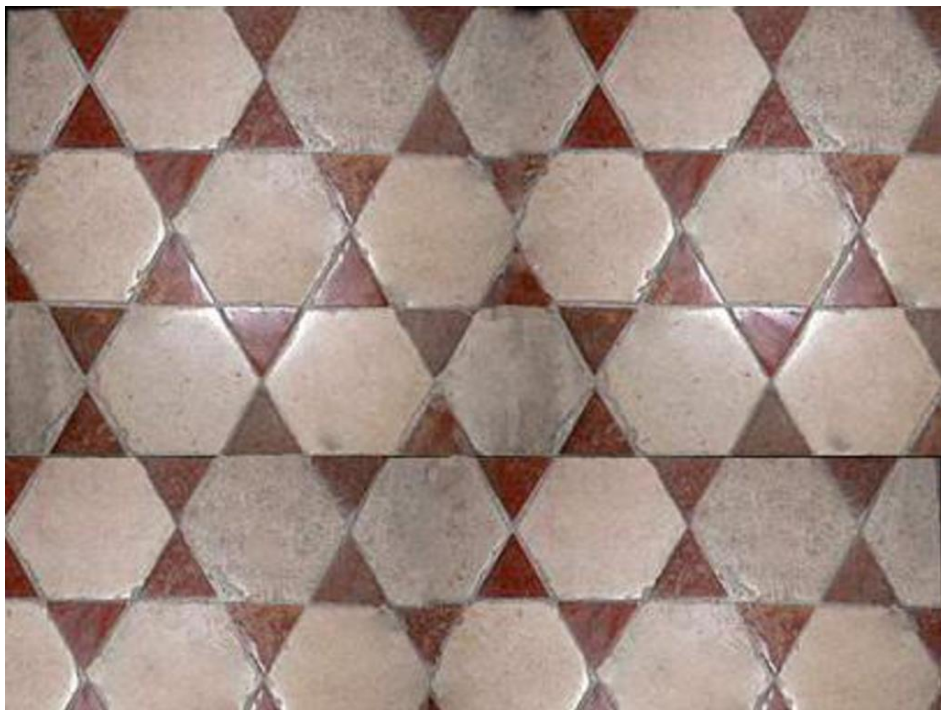


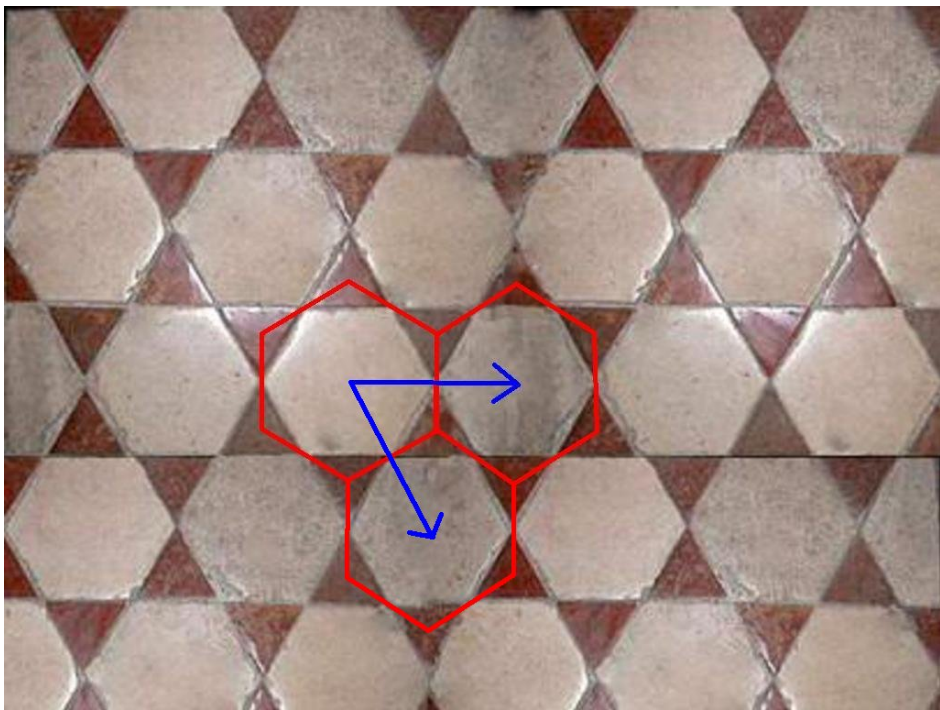




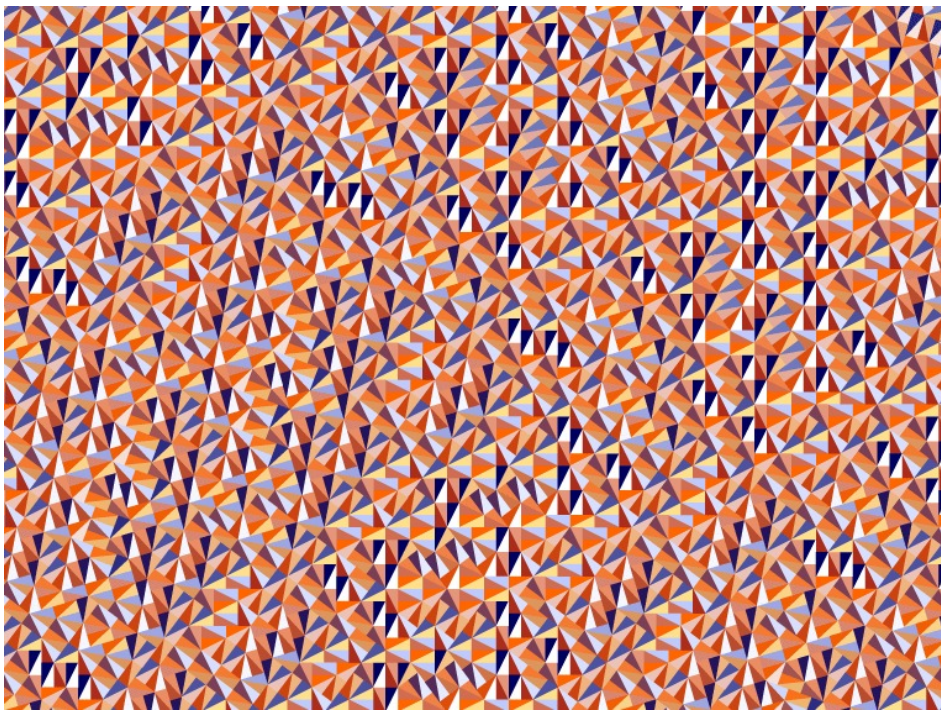












20426

Robert Berger (1966)

20426

Robert Berger (1966)

6

Raphael Robinson (1971)



20426

Robert Berger (1966)

6

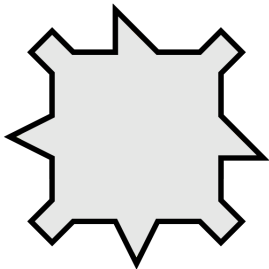
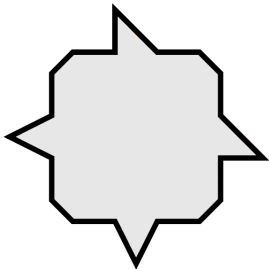
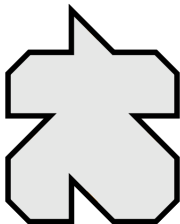
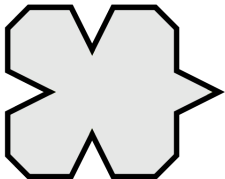
Raphael Robinson (1971)

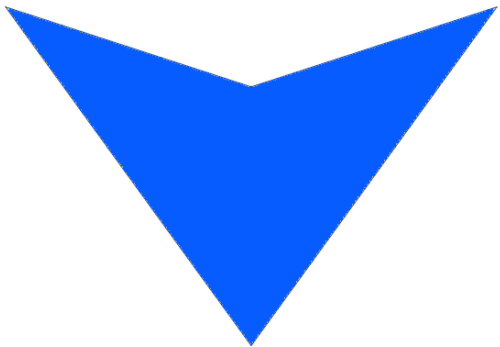
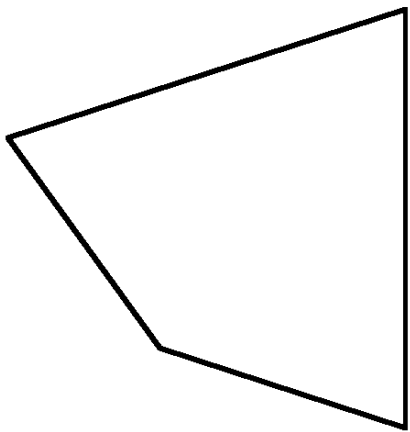


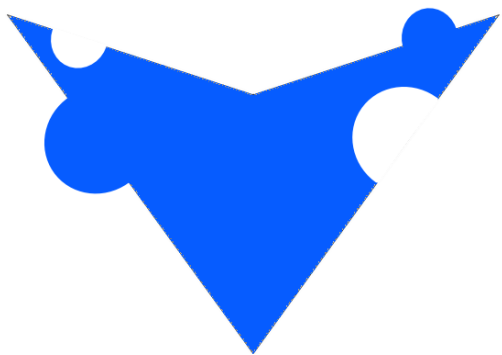
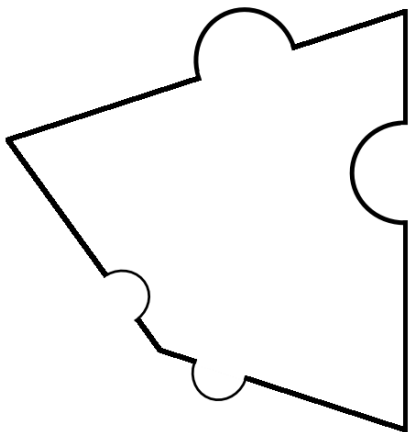
2

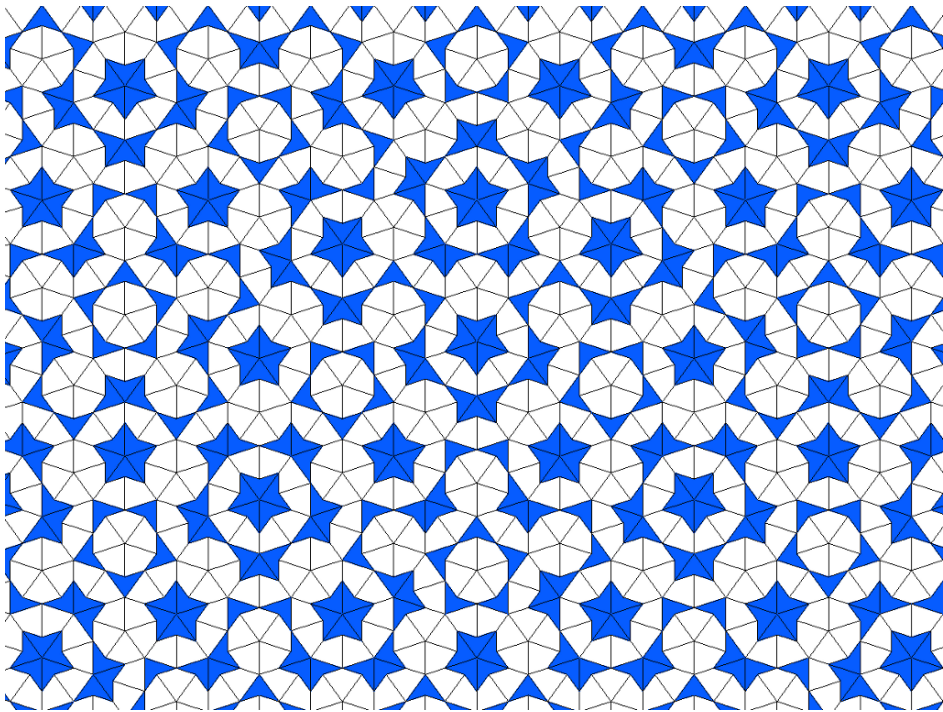
Roger Penrose (1973)

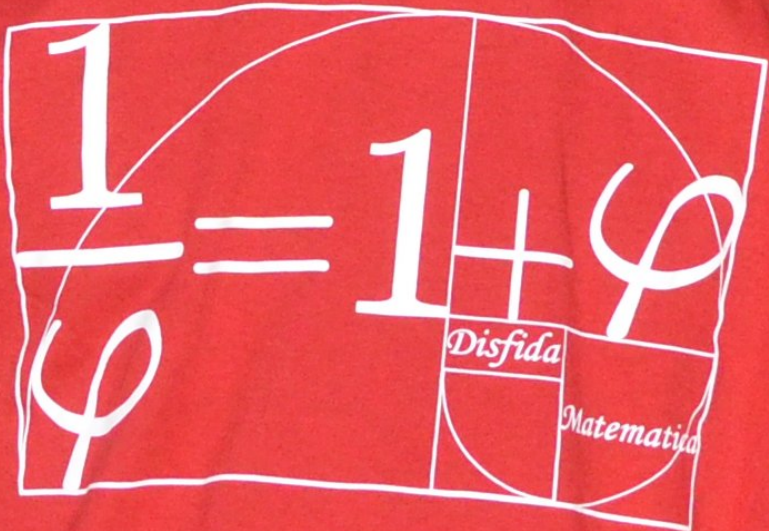


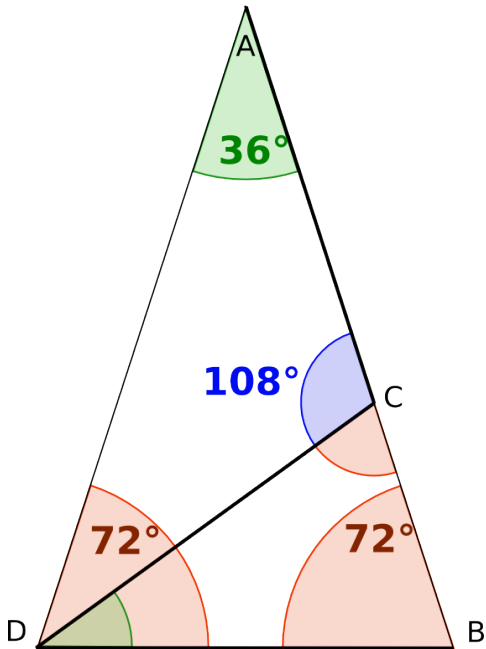


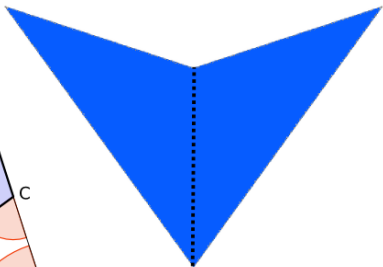
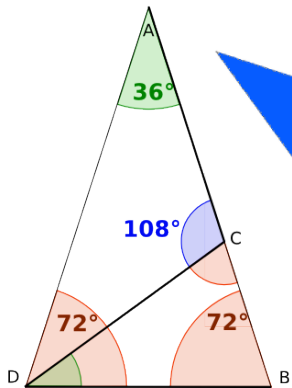
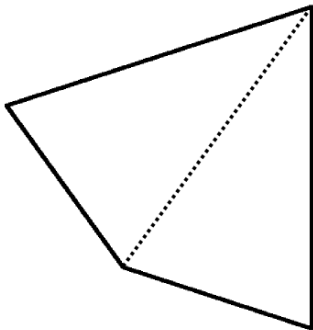


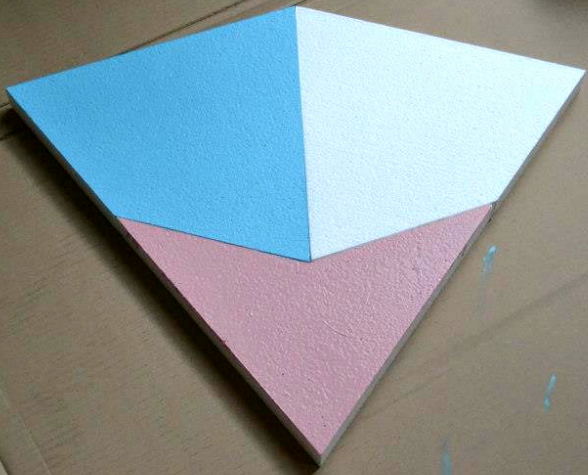


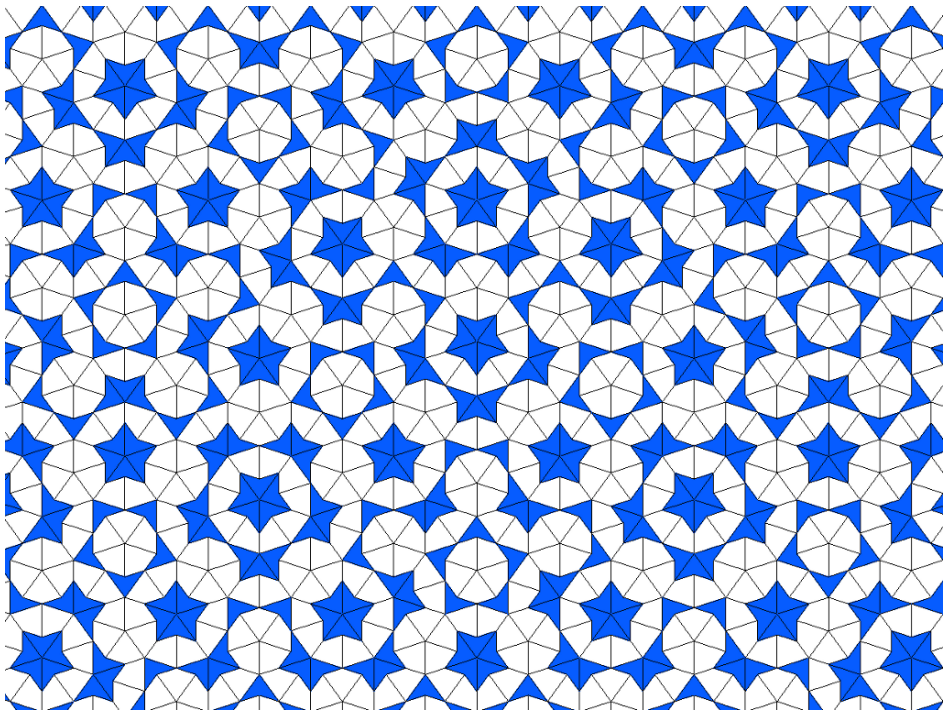


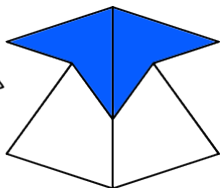
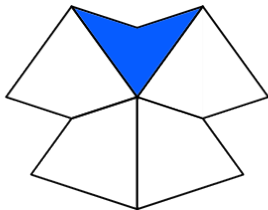
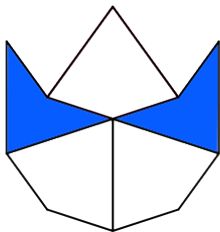
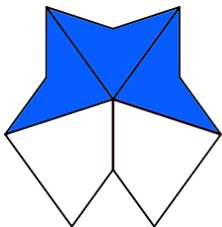
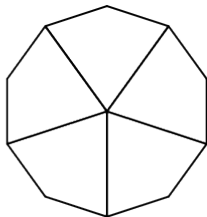
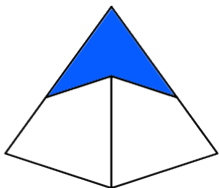
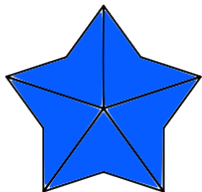


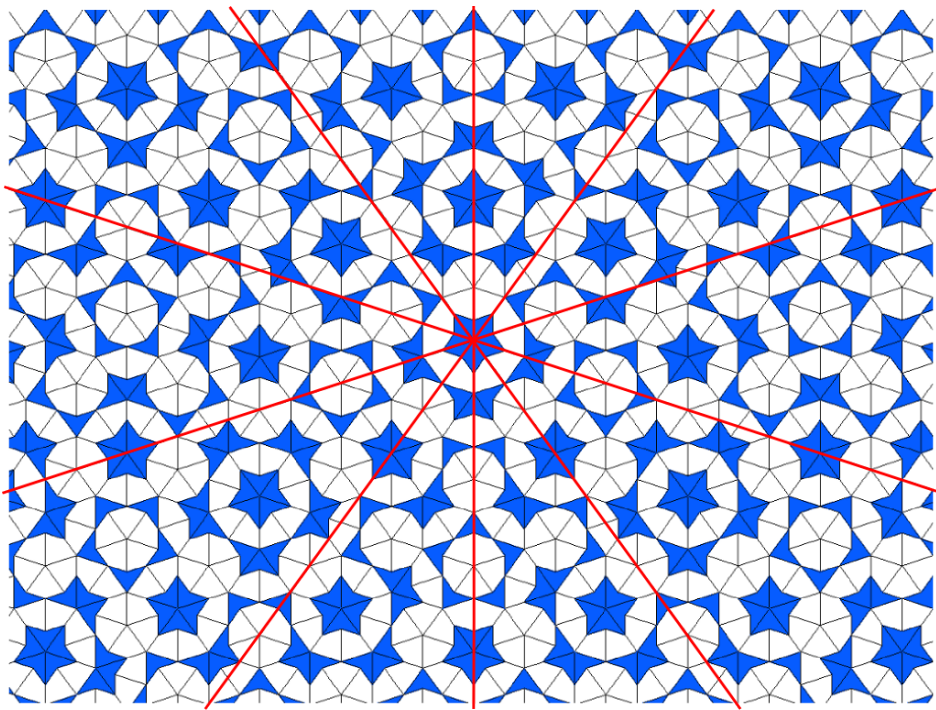


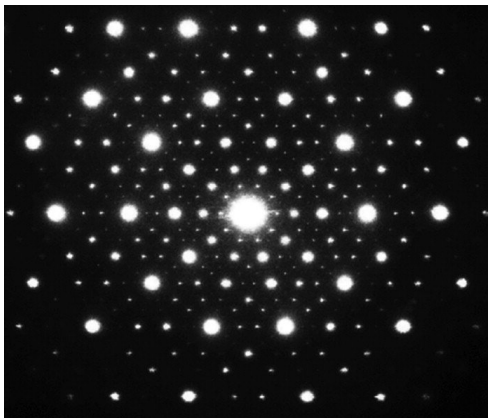


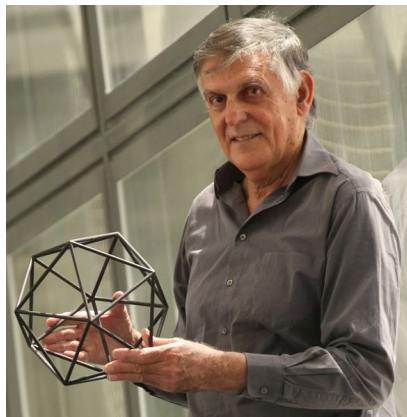
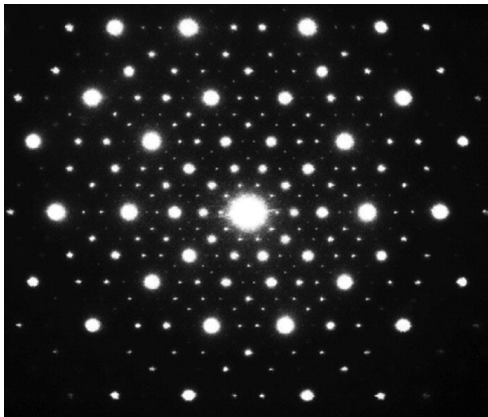




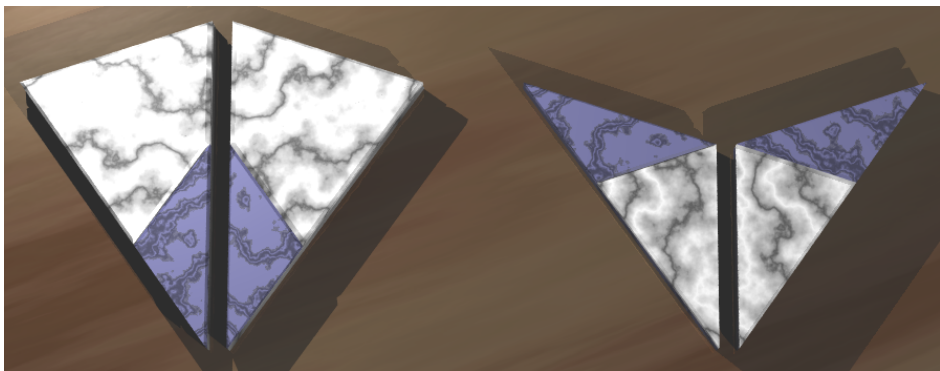


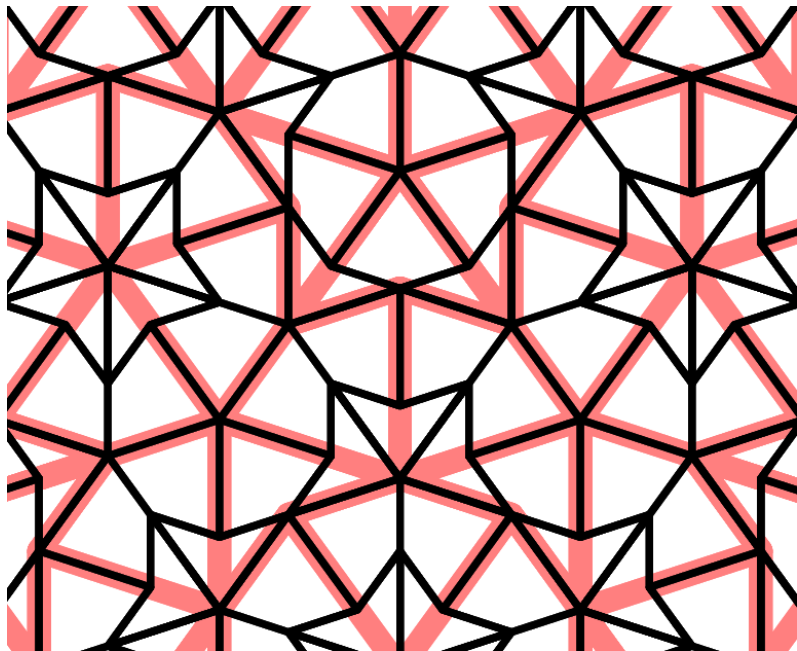


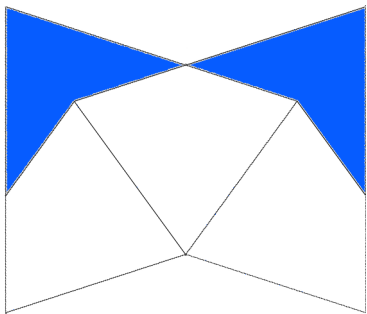
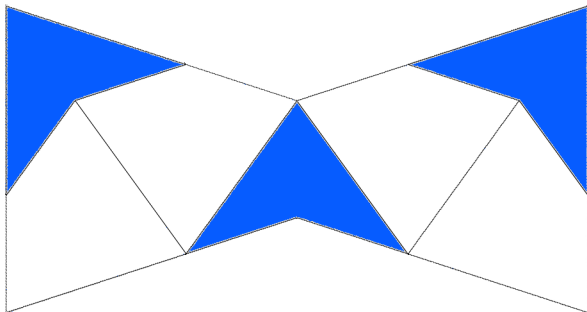


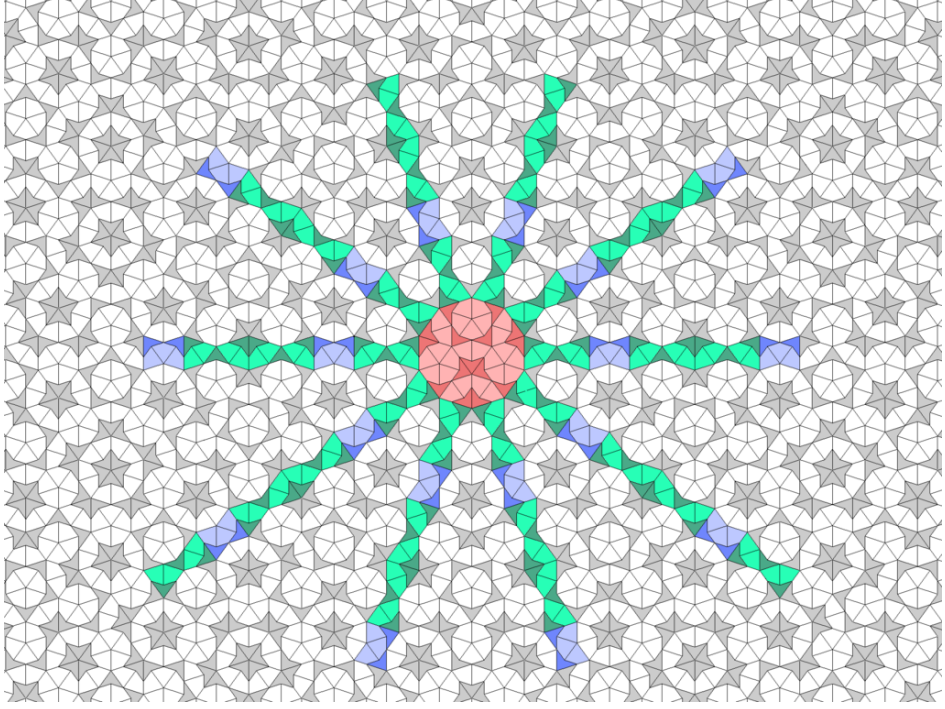


Dan Shechtman (Nobel 2011)













1 1 2 3 5 8 13 21 34 ...



1 1 2 3 5 8 13 21 34 ...

0 \longrightarrow 1

1 \longrightarrow 1 0



1 1 2 3 5 8 13 21 34 ...

0 \longrightarrow 1

1 \longrightarrow 1 0

0



1 1 2 3 5 8 13 21 34 ...

0 \longrightarrow 1

1 \longrightarrow 1 0

0 \rightarrow 1



1 1 2 3 5 8 13 21 34 ...

0 \longrightarrow 1

1 \longrightarrow 1 0

0 \rightarrow 1 \rightarrow 10



1 1 2 3 5 8 13 21 34 ...

0 \longrightarrow 1

1 \longrightarrow 1 0

0 \rightarrow 1 \rightarrow 10 \rightarrow 101



1 1 2 3 5 8 13 21 34 ...

0 \longrightarrow 1

1 \longrightarrow 1 0

0 \rightarrow 1 \rightarrow 10 \rightarrow 101 \rightarrow 10110



1 1 2 3 5 8 13 21 34 ...

0 \longrightarrow 1

1 \longrightarrow 1 0

0 \rightarrow 1 \rightarrow 10 \rightarrow 101 \rightarrow 10110 \rightarrow 10110101



1 1 2 3 5 8 13 21 34 ...

0 \longrightarrow 1

1 \longrightarrow 1 0

0 \rightarrow 1 \rightarrow 10 \rightarrow 101 \rightarrow 10110 \rightarrow 10110101 \rightarrow 1011010110110



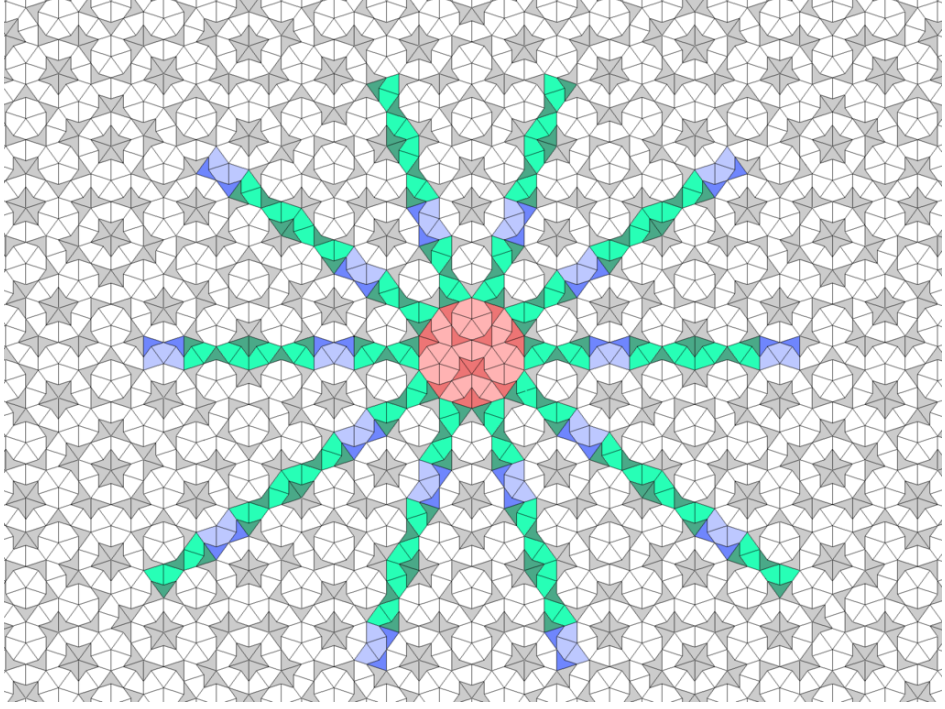
1 1 2 3 5 8 13 21 34 ...

0 \longrightarrow 1

1 \longrightarrow 1 0

0 \rightarrow 1 \rightarrow 10 \rightarrow 101 \rightarrow 10110 \rightarrow 10110101 \rightarrow 1011010110110

1 0 1 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 0 1 1 0 1 ...





Frecce e aquiloni
nel cielo della matematica

Frecce e aquiloni
nel cielo della matematica