

PATTERNS IN SCIENCE

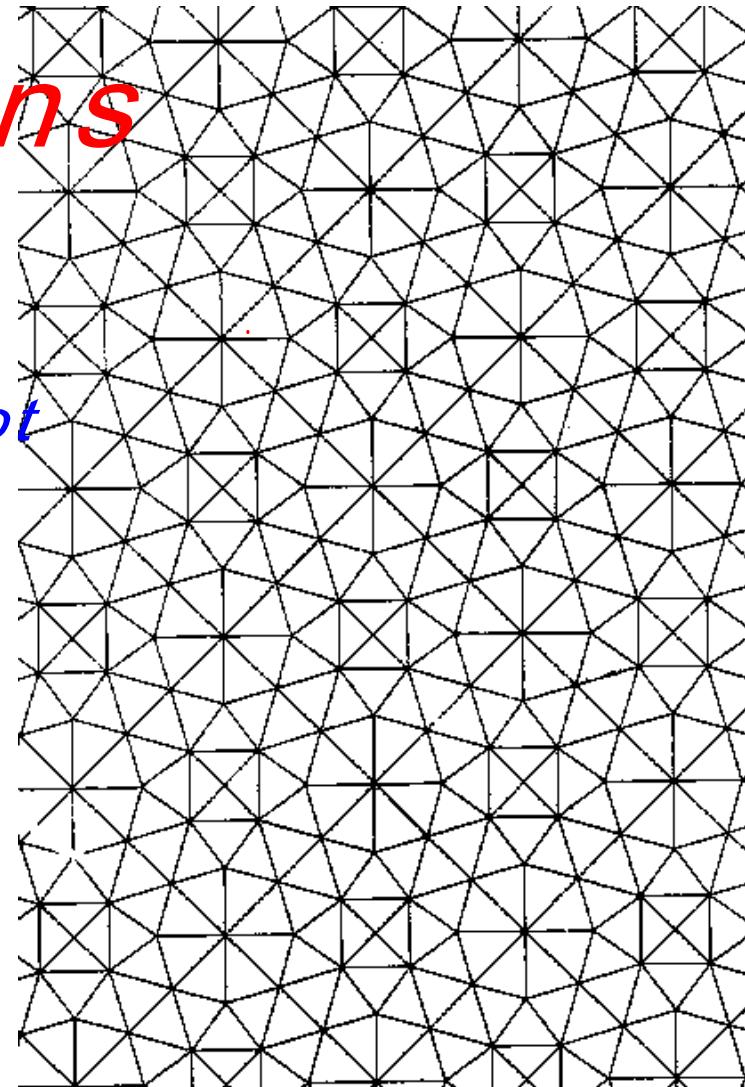
If a mathematical model of an experiment can be created, it usually indicates that a scientist has discovered something

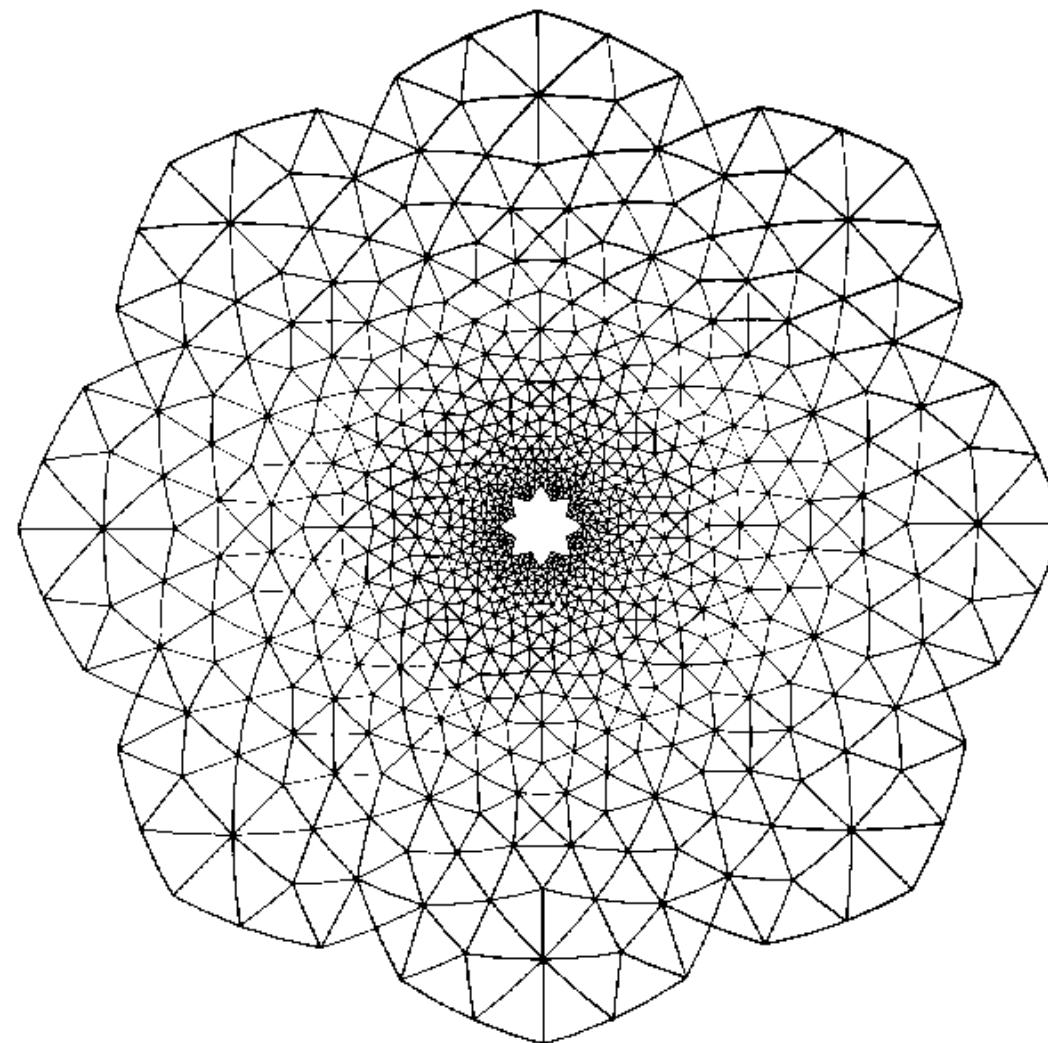


Tessellations

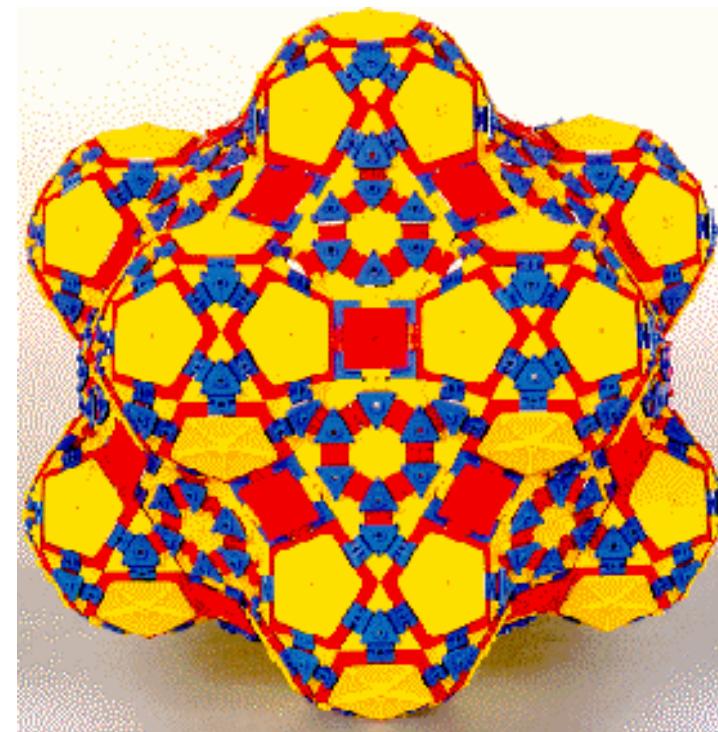
*polygons that do not
overlap; congruent
and regular*

Find the unit cell

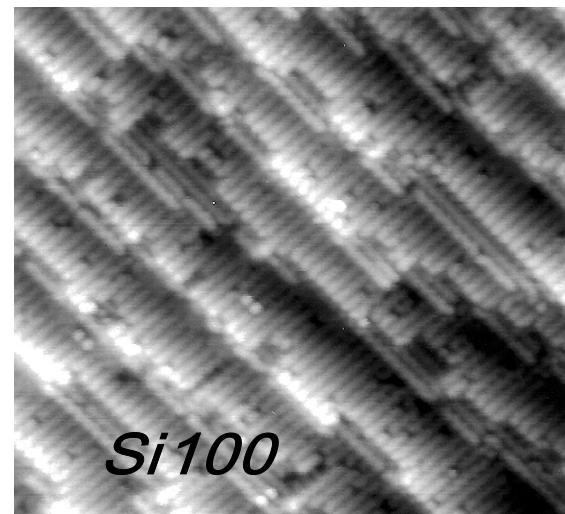




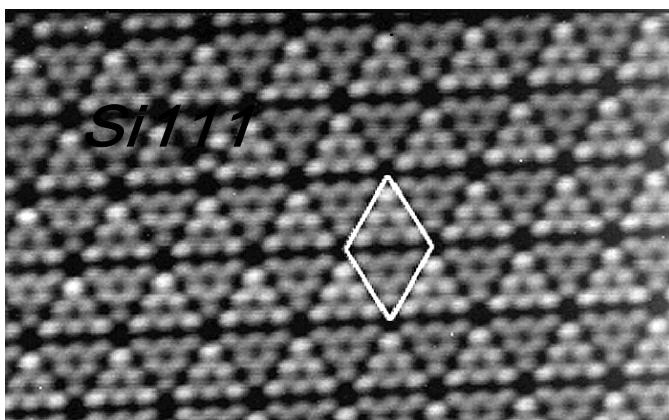
Googolplex



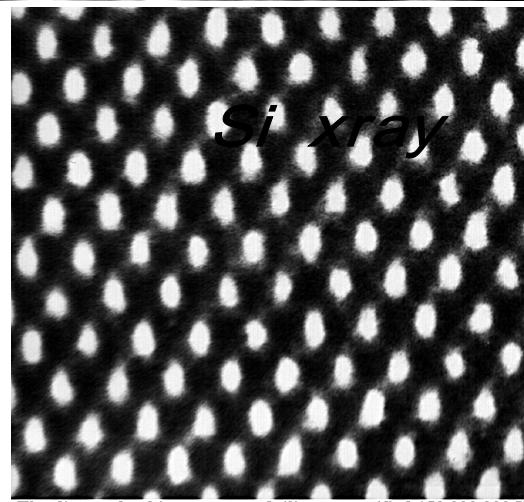
silicon



Si100

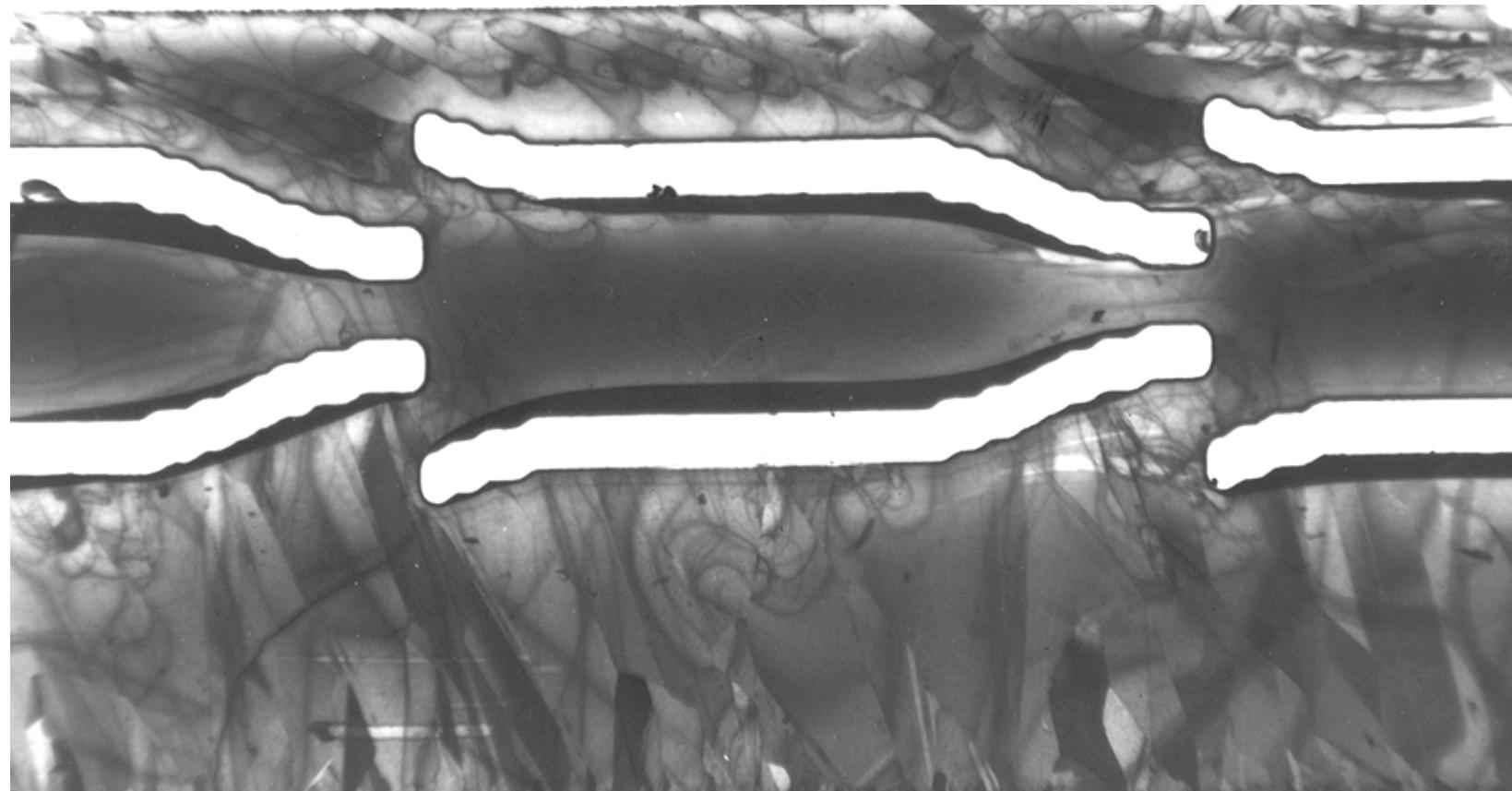


Si111



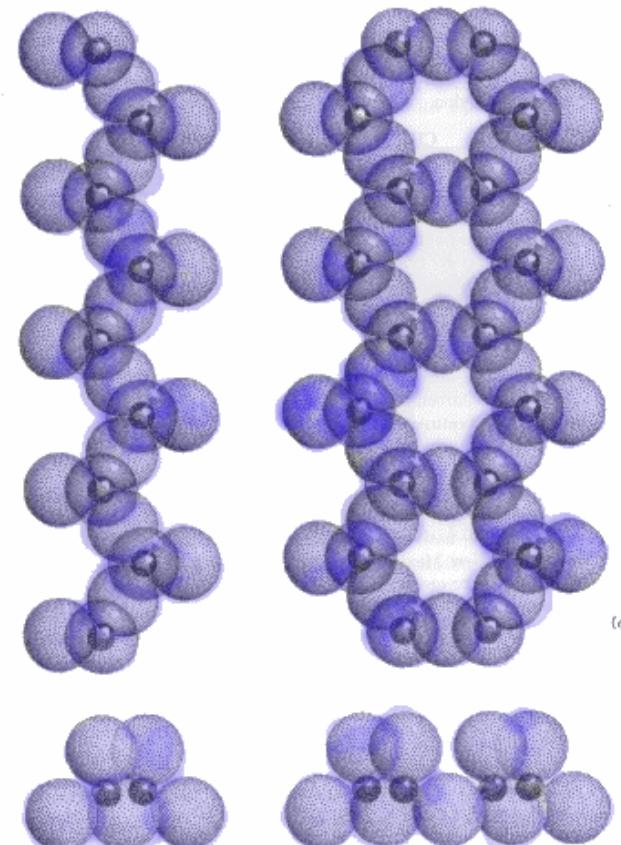
Si xray

The diamond cubic structure of silicon magnified 150,000,000 X



polysilicate

Silicate arrangement



FIBONACCI SEQUENCE

LEONARD FIBONACCI (1180-1228)

*sequence that is based on a
mathematical manipulation
of the previous numbers*

1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144

1; 1; 2 (1+1); 3 (1+2); 5(2+3)

2,4,6,8,10,

1,3,5,7,9,

1,2,4,7,

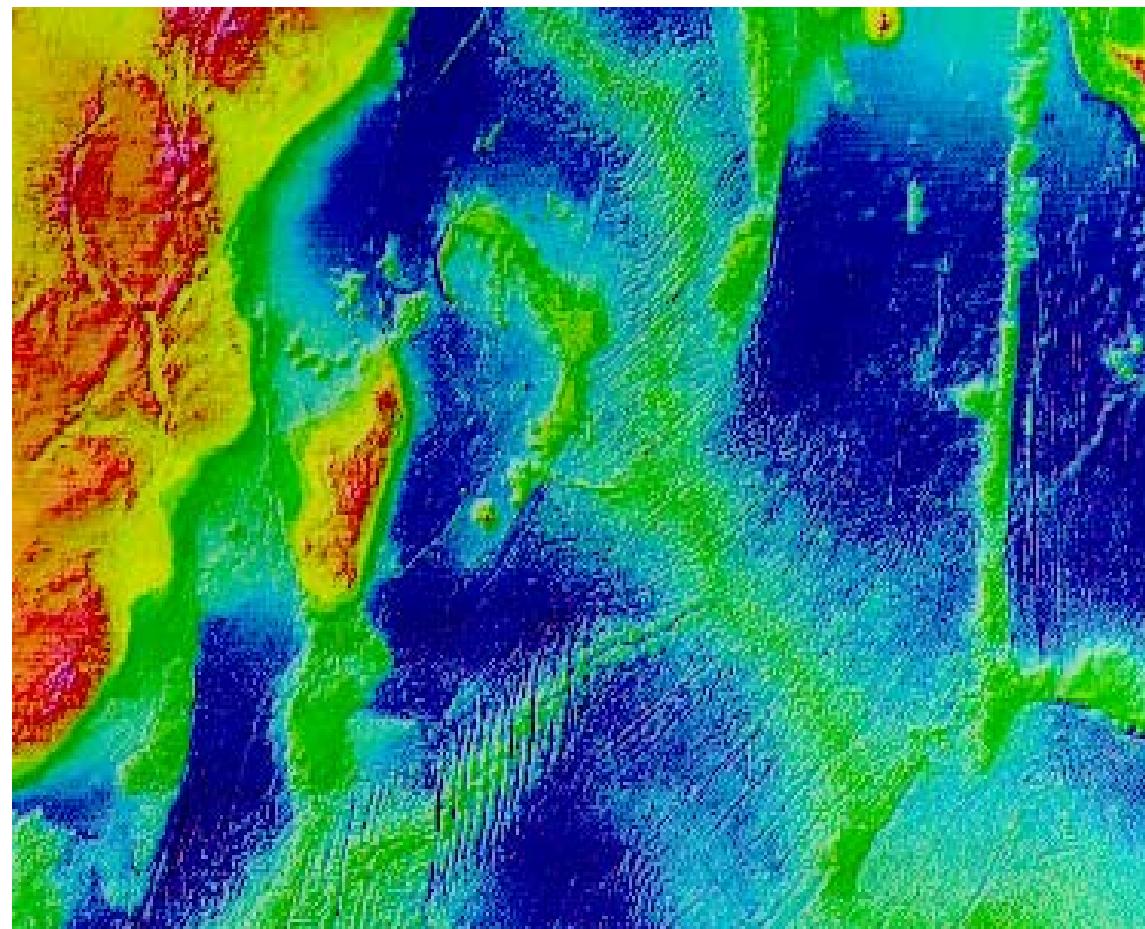
1,6,11,16,

1,4,9,16,

1, 1/2, 1/4,

100, 95, 90,

*Gravity information from
satellite*



Indian Ocean

Radiolarians

