No es la primera vez que hablamos en ::ZTFNews del ingeniero y artista Jos Leys. Sus extraordinarias animaciones de diferentes nociones matemáticas son una delicia: bellas y técnicamente perfectas. Recordemos las de *Dimensions*, *Caos*, sus *fractales* (y *más fractales*), sus *teselaciones* o la *banda de Möbius en relación con un canon retrógrado de Bach*.

Galleries :

The Klein bottle

Construction of a Klein bottle by joining the edges of a rectangle.

Added on 2016-02-16

The figure 8 Klein bottle

The less-known form of the Klein bottle...

Added on 2016-02-16

From an octagon to a genus 2 surface

An octagon can be bent into a genus two surface (a surface with two holes) by joining the sides with the same colour..

Added on 2016-02-16

From a 40-gon to a genus 10 surface.

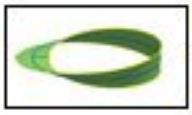
A polygon with 40 edges can be bent into a genus 10 surface (a surface with 10 holes).

Added on 2016-02-16

The cross-cap.

The construction of the cross-cap.

Added on 2016-02-17



Moebius strip and cross-cap

Visual proof that a Moebius strip is homeomorphic to a cross-cap with a disc removed.

Added on 2016-03-01

Connected sum of two real projective planes

Visual proof that the connected sum of two real projective planes is a Klein bottle.

Added on 2016-02-16

Dodecahedral tesselation of the hypersphere

A dissection of the 120 cell in twelve rings of 10 dodecahedra. Two sets of six rings form 2 solid interlocked tori. The film starts by showing the 600 cell, the dual of the 120 cell.

Added on 2016-02-21

Moebius-Klein

Two Moebius strips make a Klein bottle

Added on 2016-02-16

Multiple Klein bottles

Linked Klein bottles. Note that the numl needs to be uneven in order to have a surface.

Added on 2016-02-16

From a 16-gon to a genus 4 su

A polygon with 16 sides can be formed surface, a surface with 4 holes.

Added on 2016-02-16

The real projective plane and t strip

The real projective plane minus a disc i strip.

Added on 2016-02-16

The Boy surface

The construction of a Boy surface.

Added on 2016-02-17

The Klein Quartic II

The transition from a hyperbolic 14-gon surface, while preserving the tiling by 2

Added on 2016-02-16

Connected sums of real proje and torus or Klein bottle.

Visual proof that the connected sum of projective plane and a torus , and the c of a real projective plane and a Klein bo homeomorphic.

Added on 2016-02-20

The Klein Quartic I

How this hyperbolic tiling can be folded surface.

Added on 2016-02-16

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