

UNE EXPLORATION VISUELLE DES MATHÉMATIQUES

TOURISME MATHÉMATIQUE



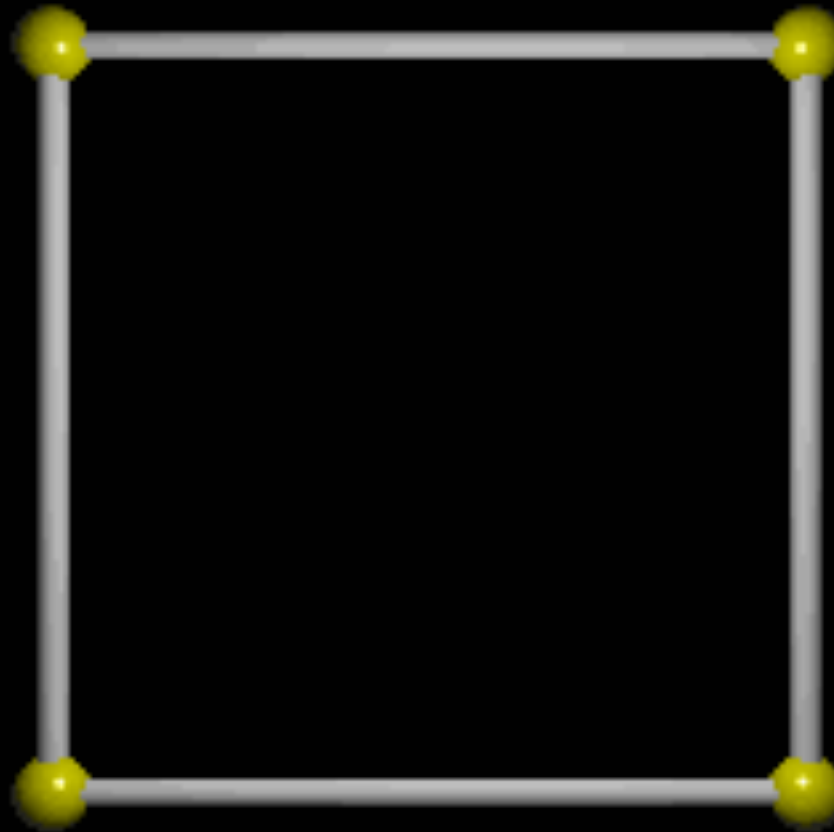
1

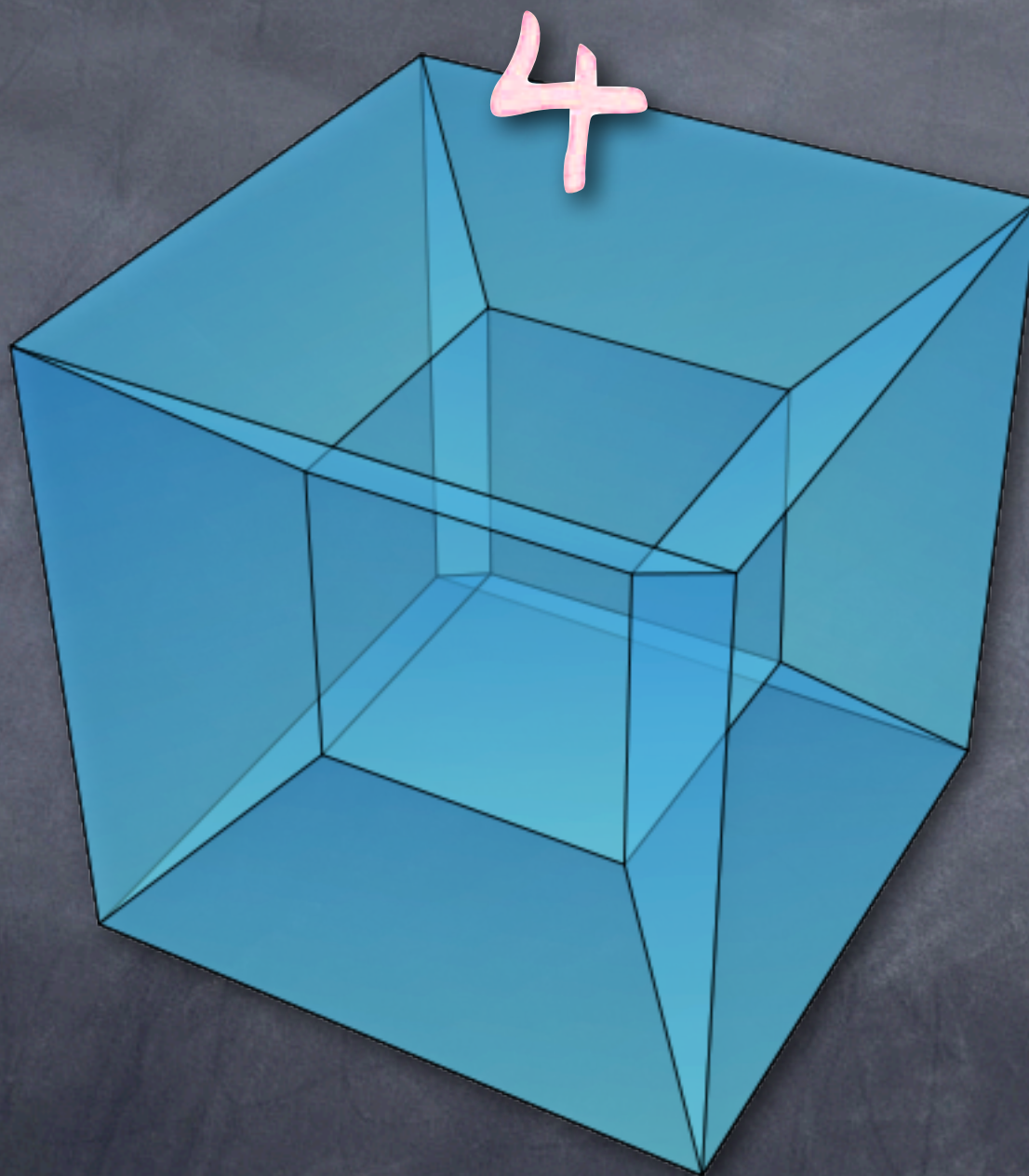


2

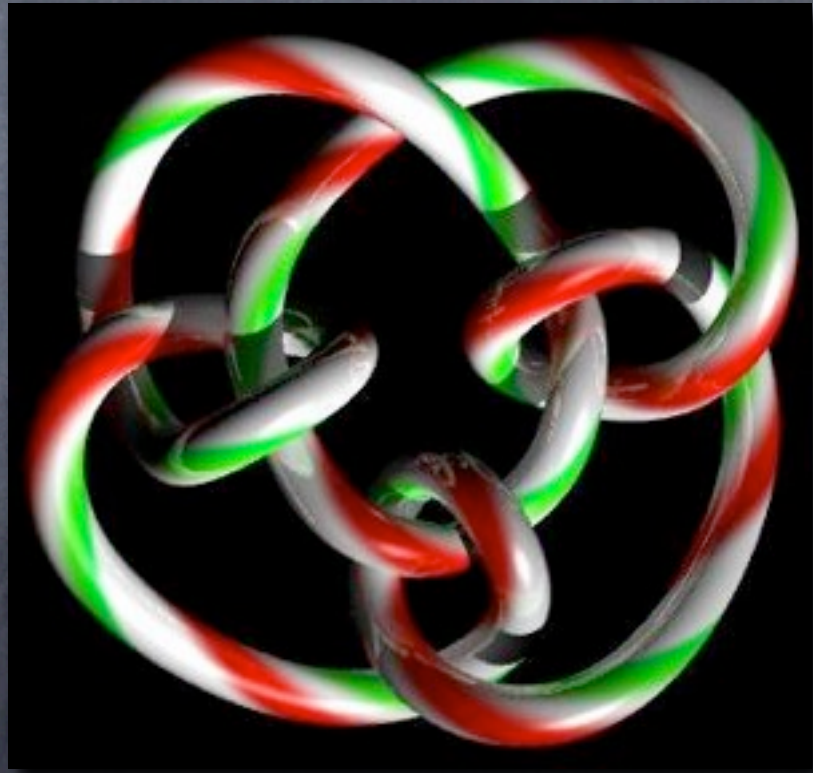


\mathbb{Z}



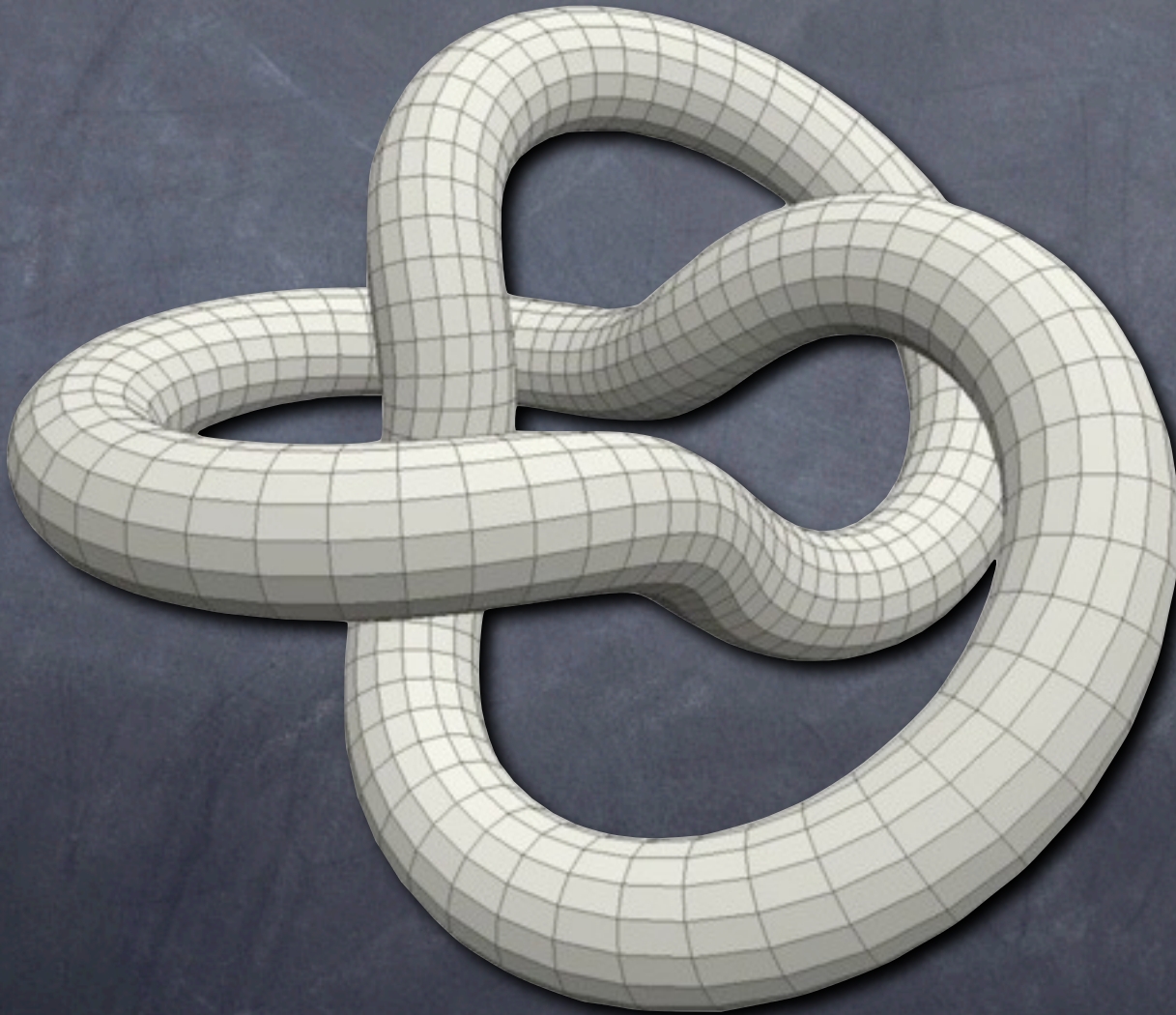


OBJETS DE DIMENSION 1

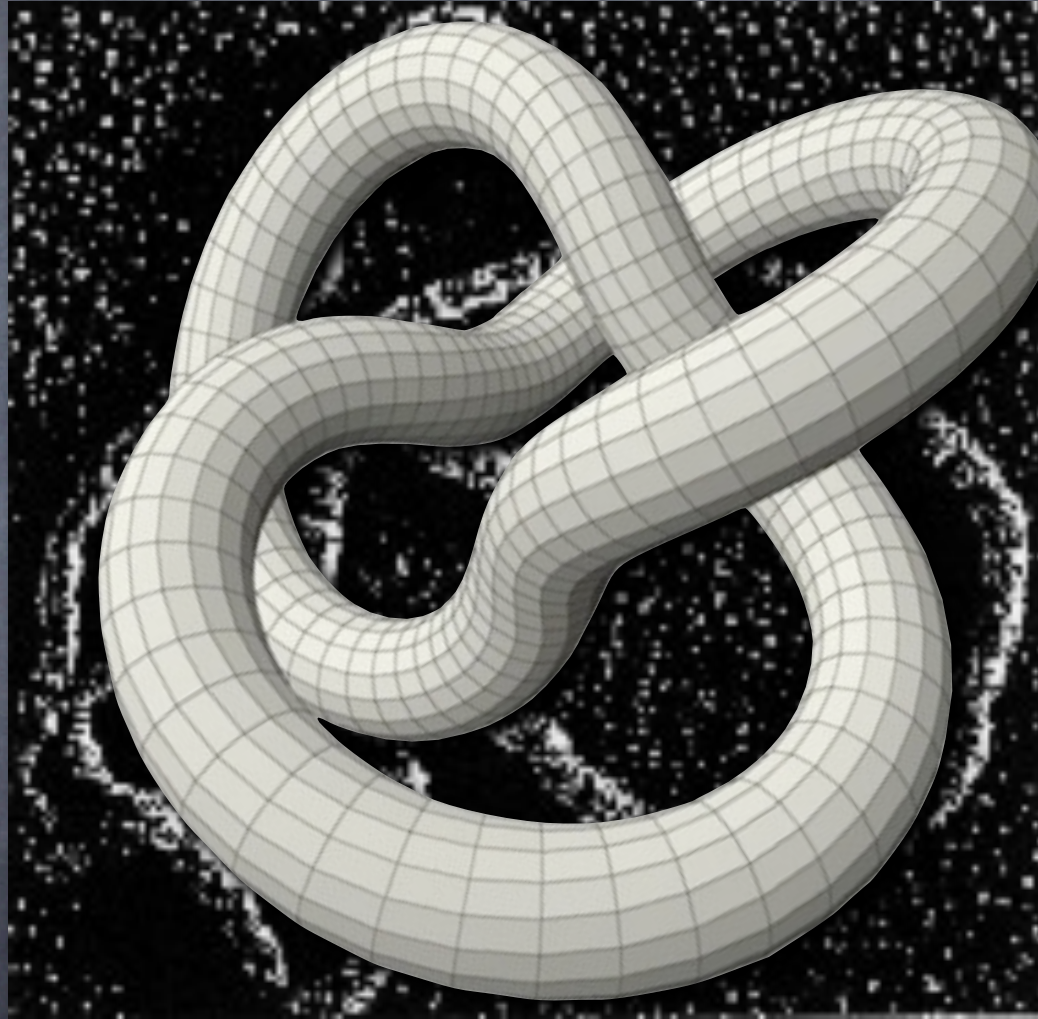


LES NOEUDS

$$f: \mathbb{S}_1 \longrightarrow \mathbb{R}^3$$

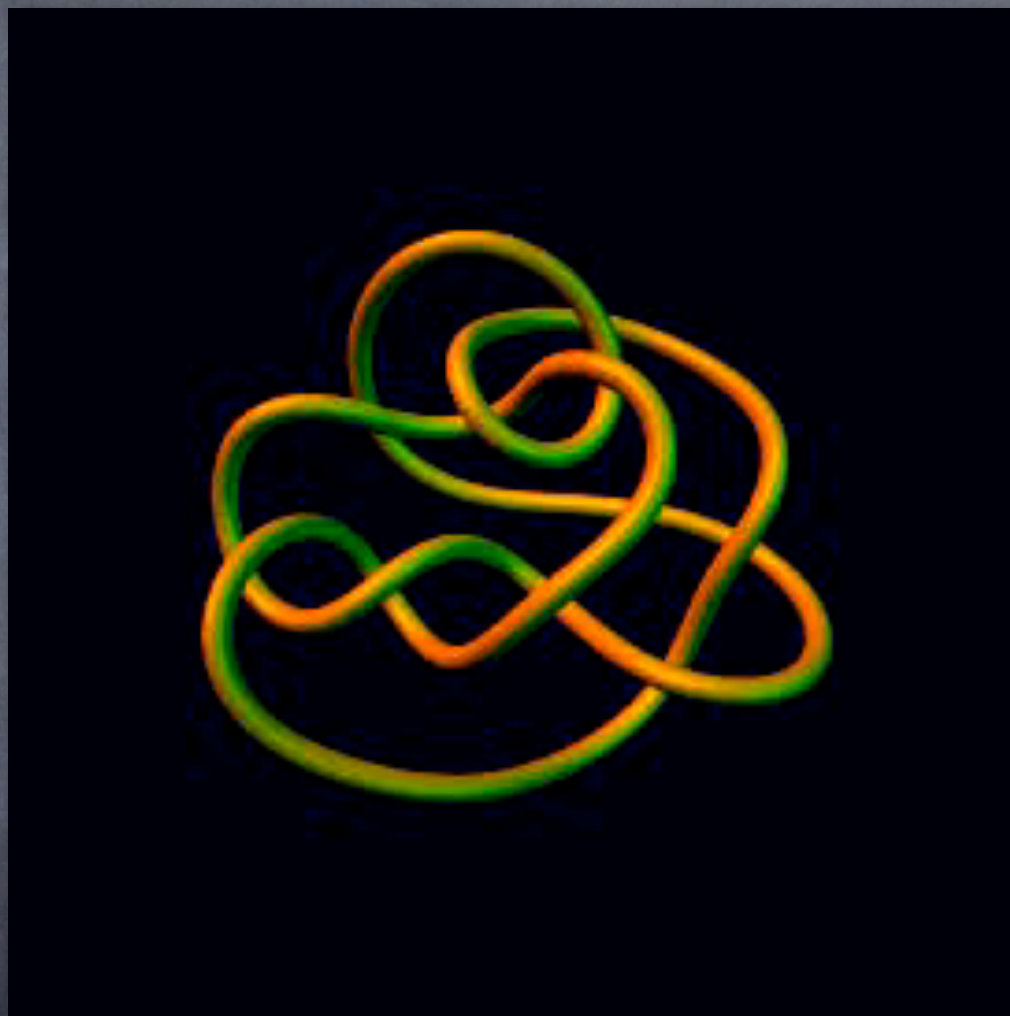


UN TOUT PETIT NOEUD

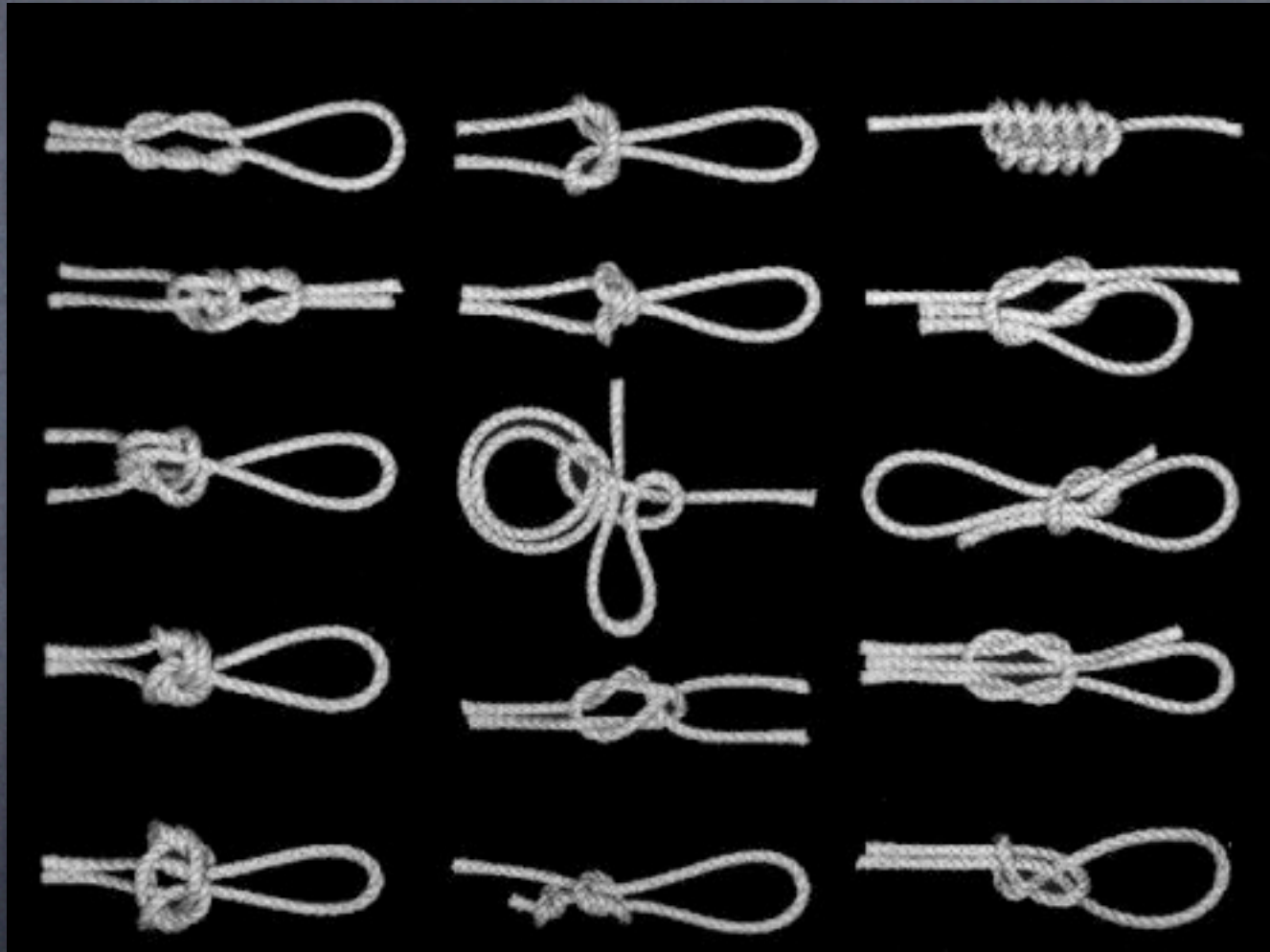


Lifting the Curtain:
Using Topology to
Probe the Hidden
Action of Enzymes,
NOTICES OF THE AMS
VOLUME 42, NUMBER 5,
1995.

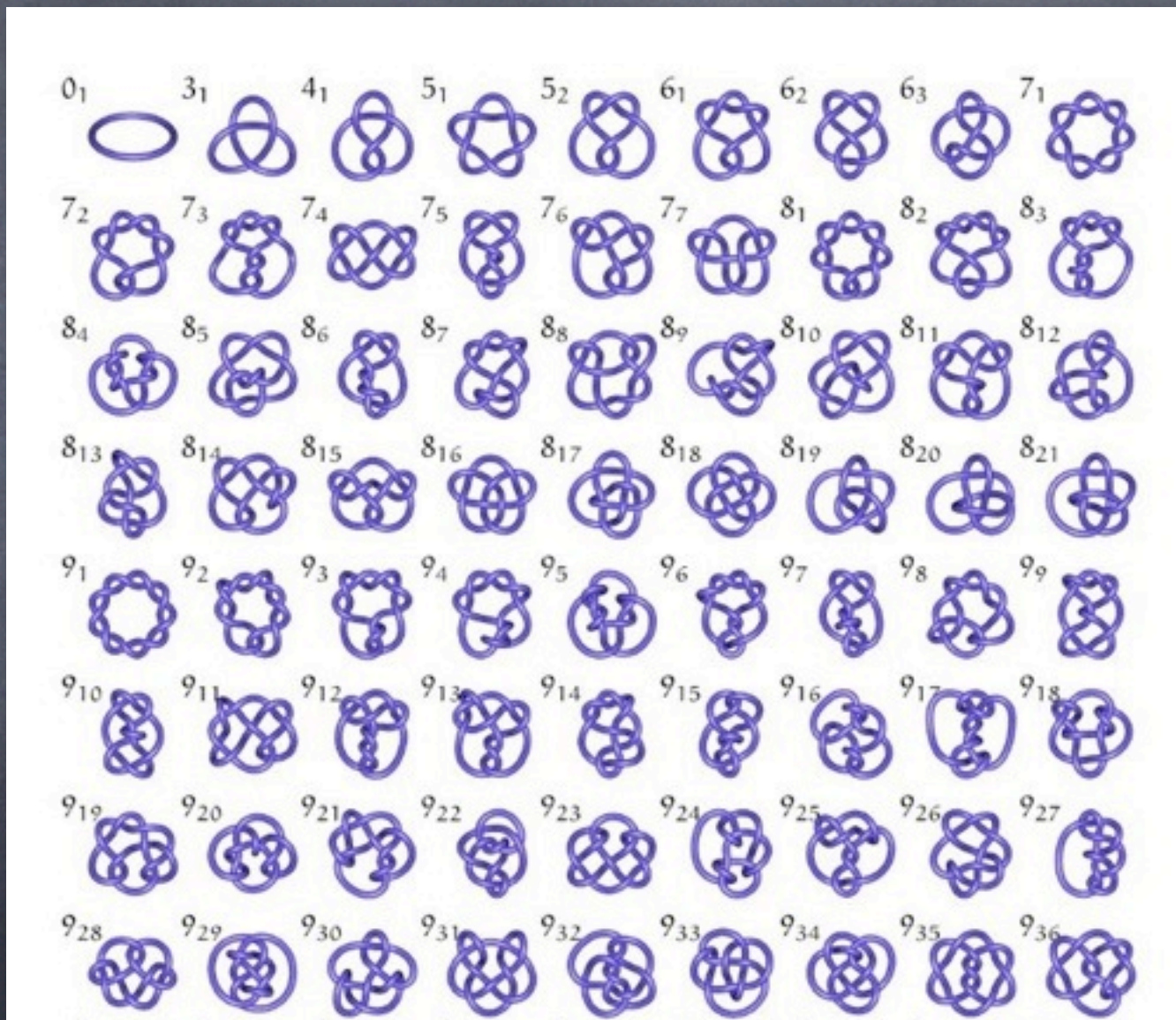
DENOVER



CLASSIFICATION DES NOEUDS



CLASSIFICATION DES NOEUDS



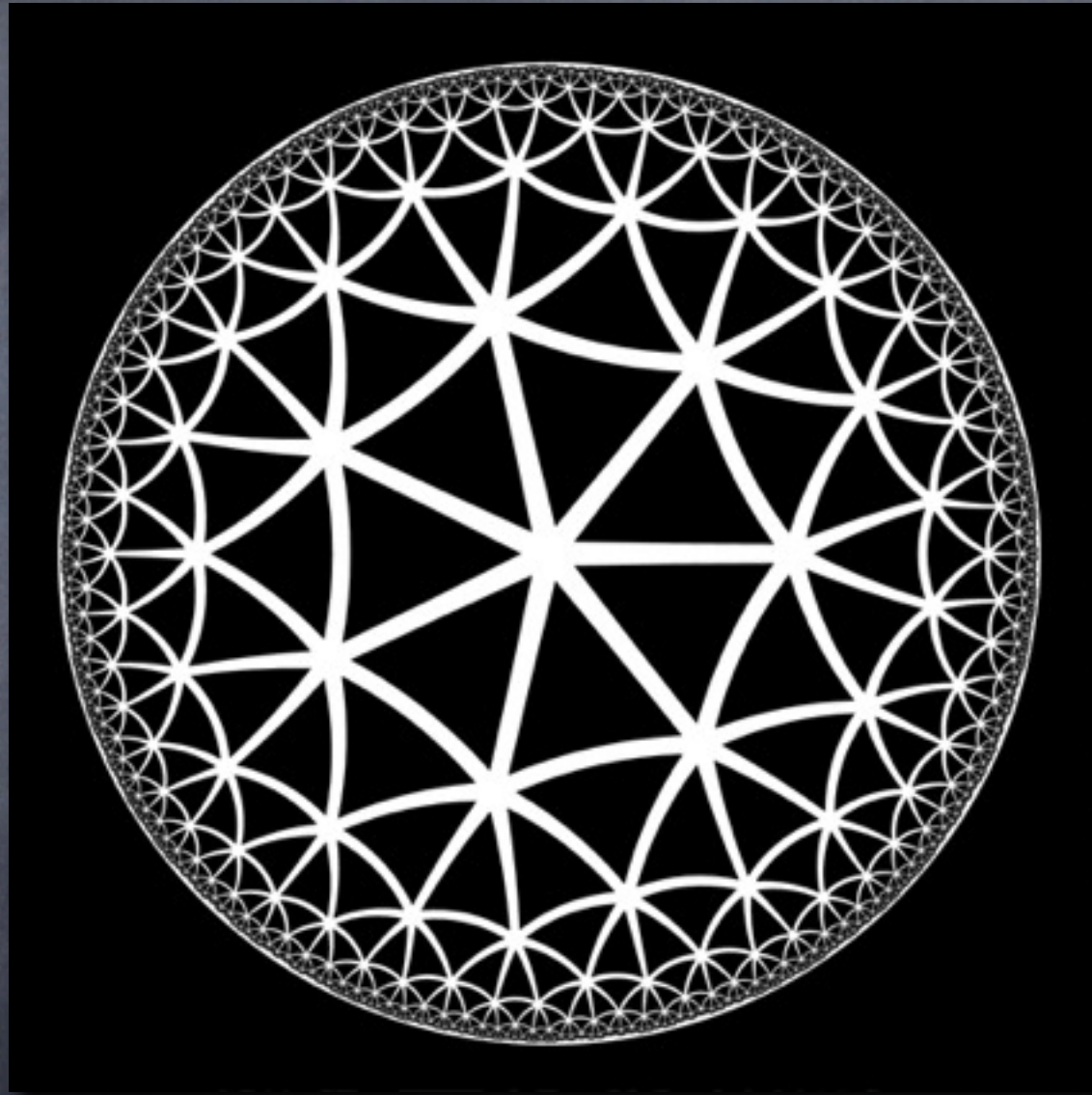
OBJETS DE DIMENSION 2



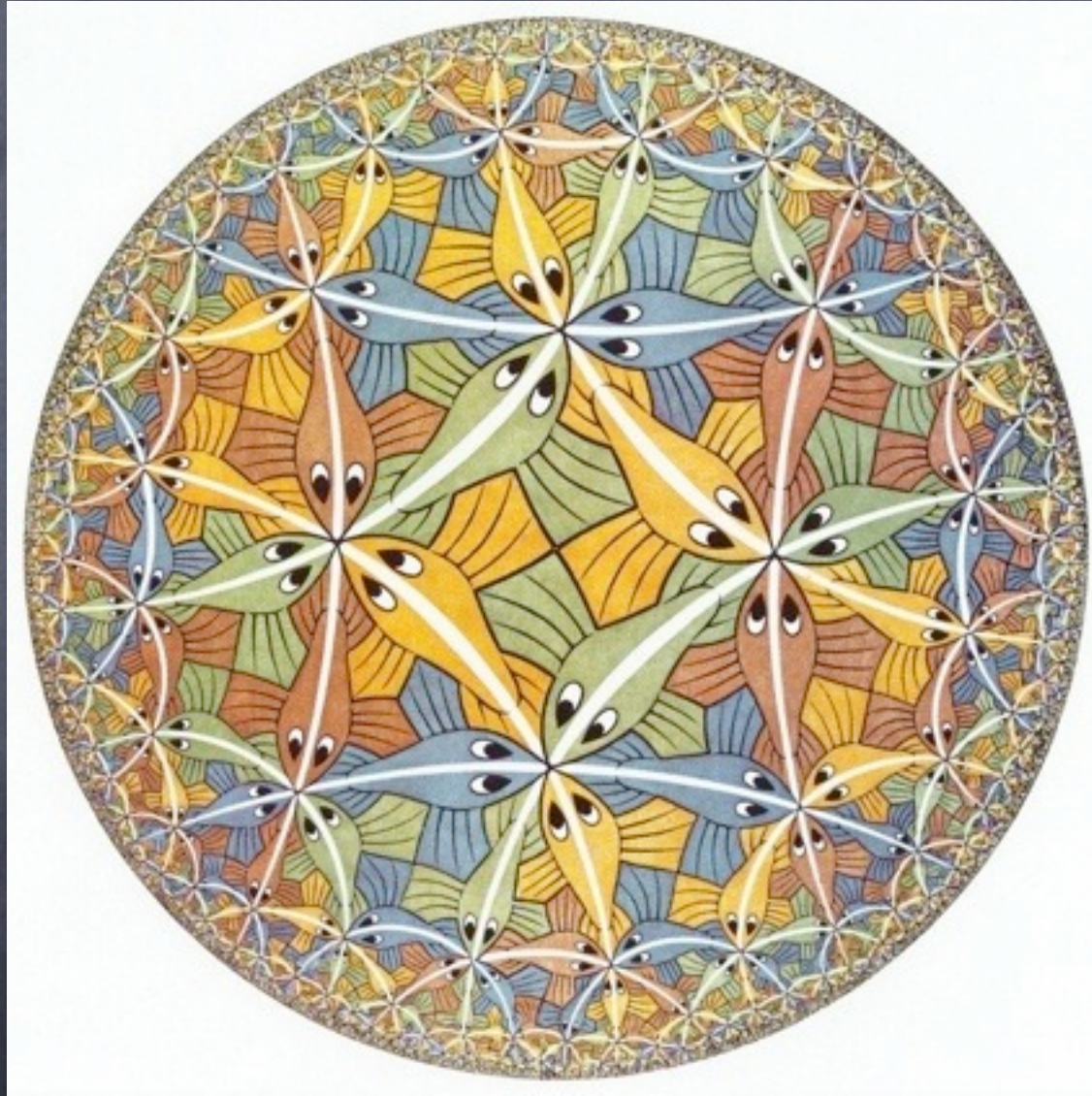
PLASTICINE MATHÉMATIQUE



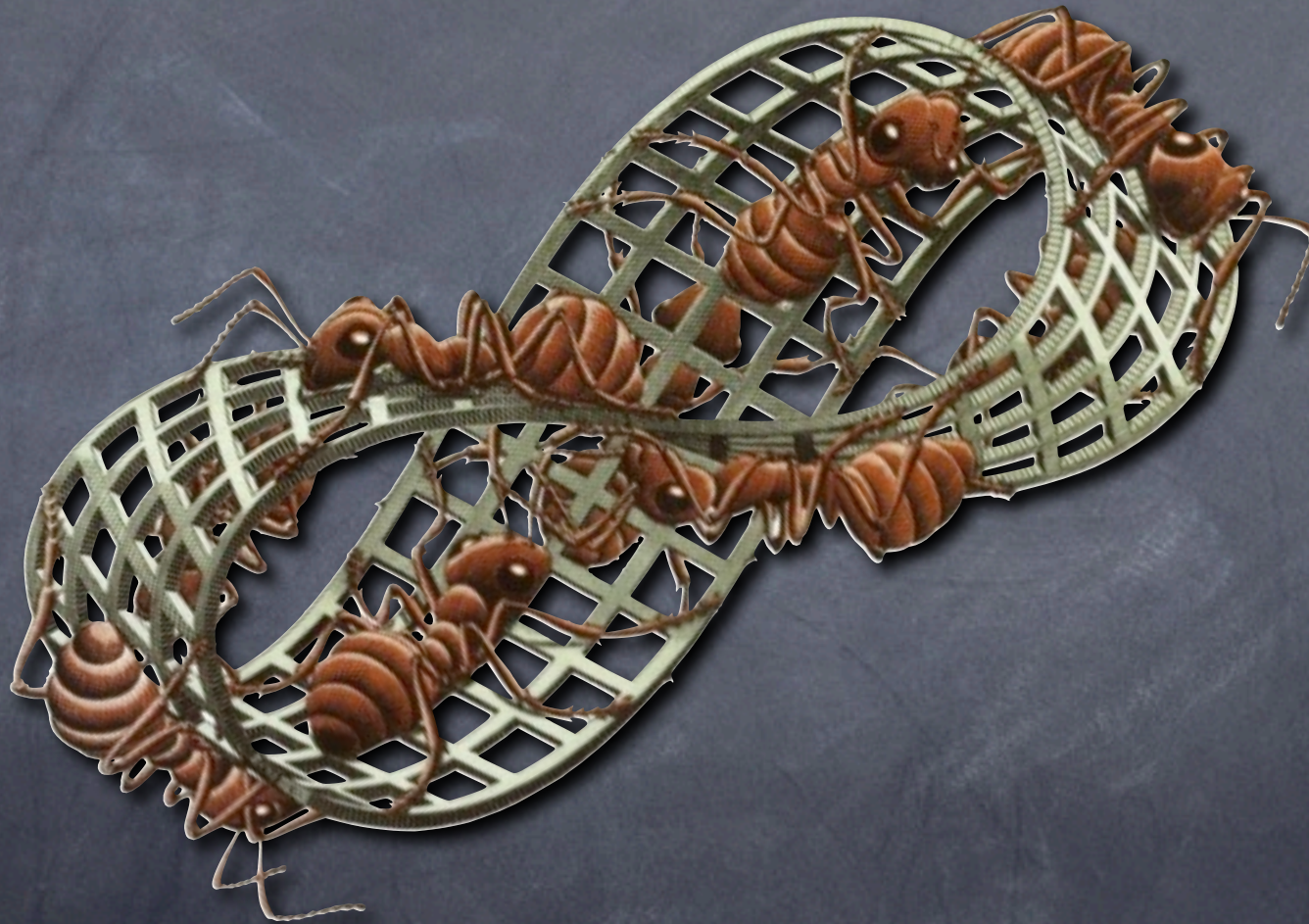
GÉOMÉTRIE HYPERBOLIQUE



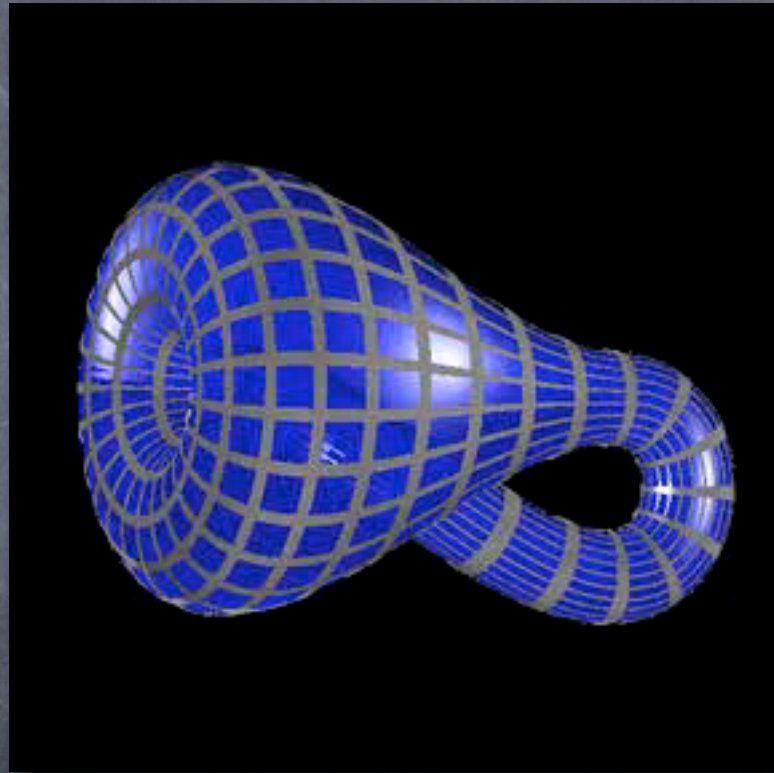
SELON ESCHER



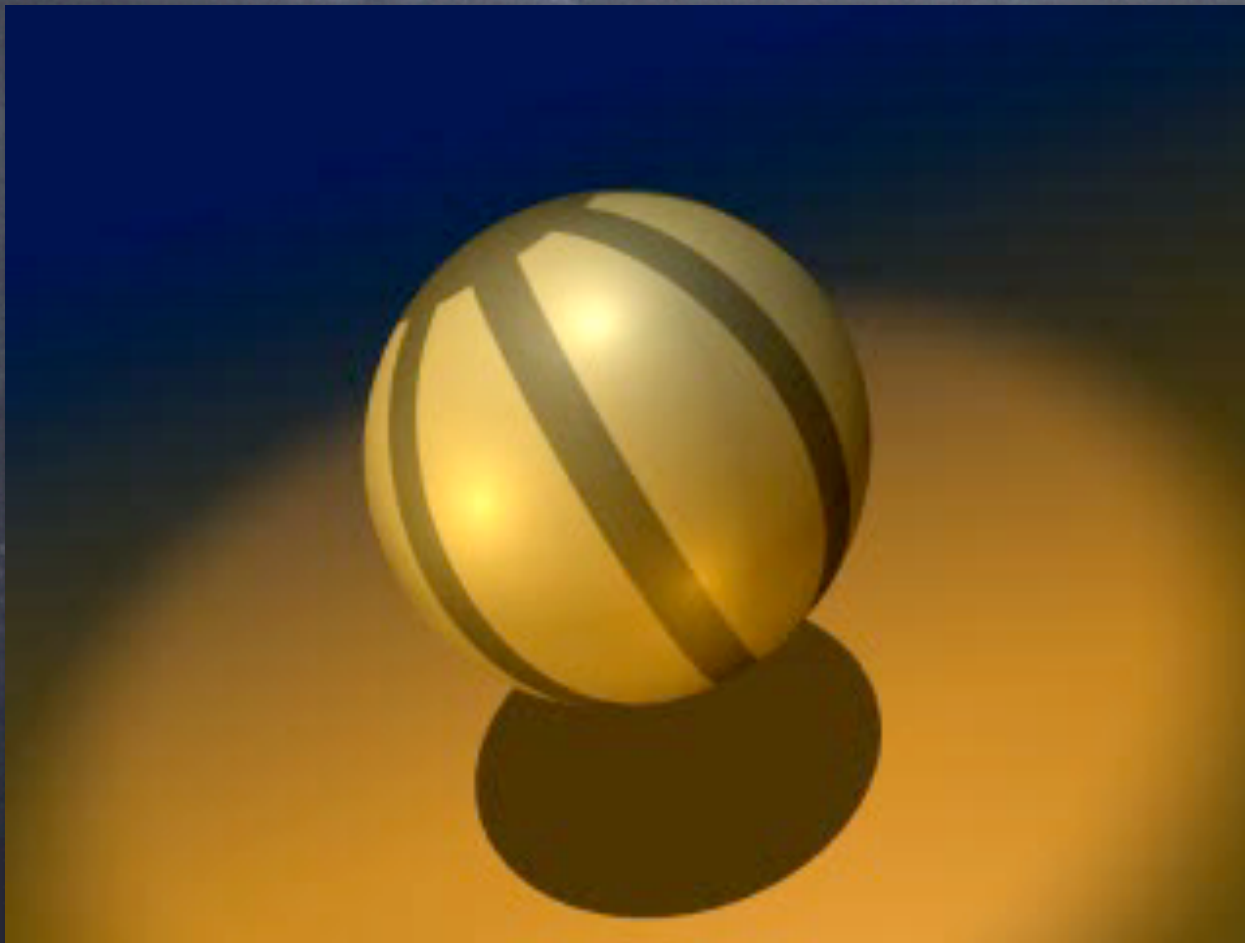
Möbius & ESCHER



COR MATHÉMATIQUE

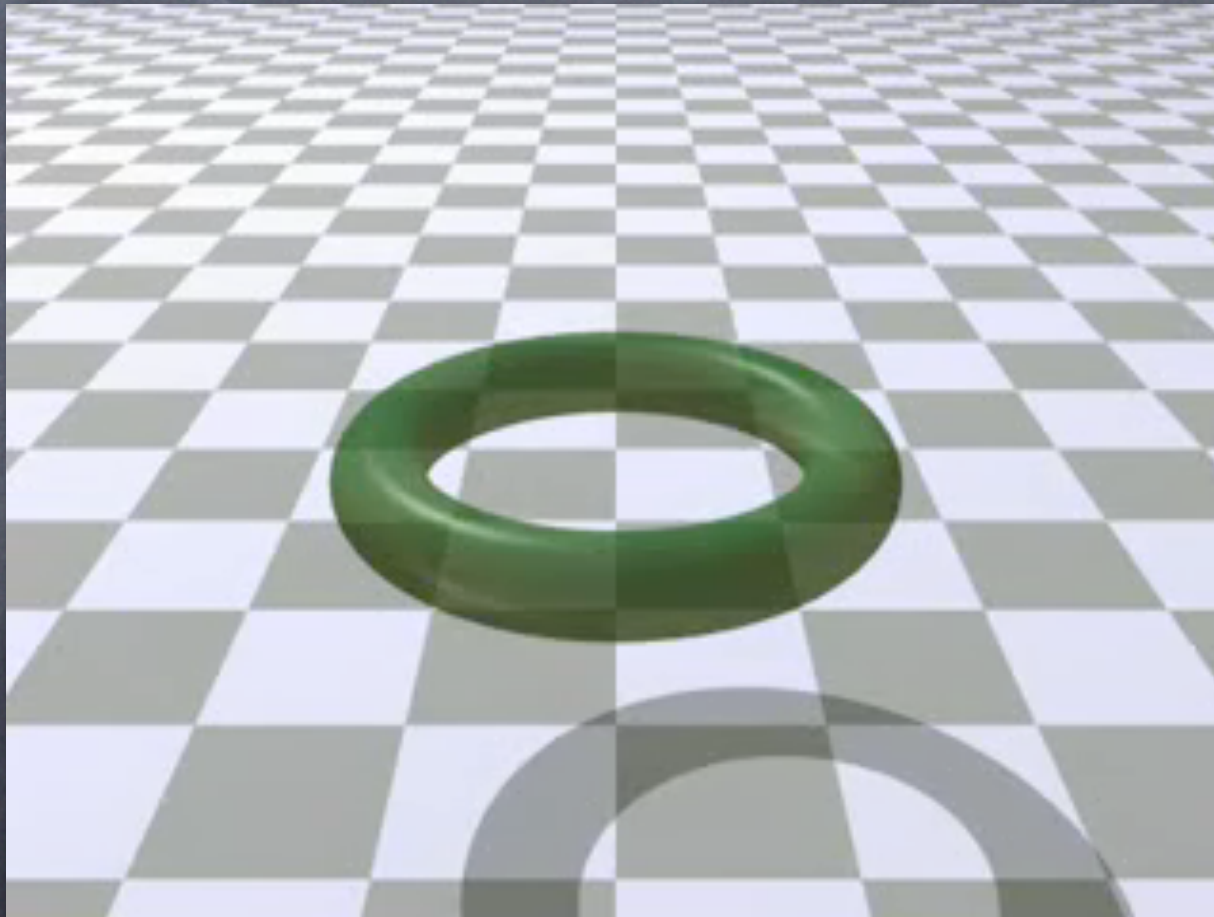


ÉVERSION DE LA SPHÈRE

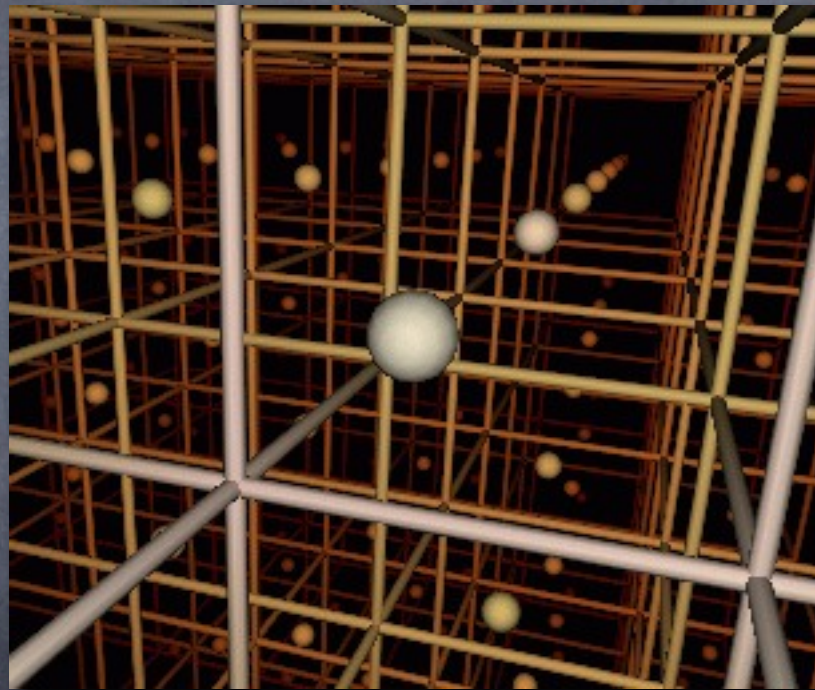


Bernard Morin, 1931--
Université de Strasbourg

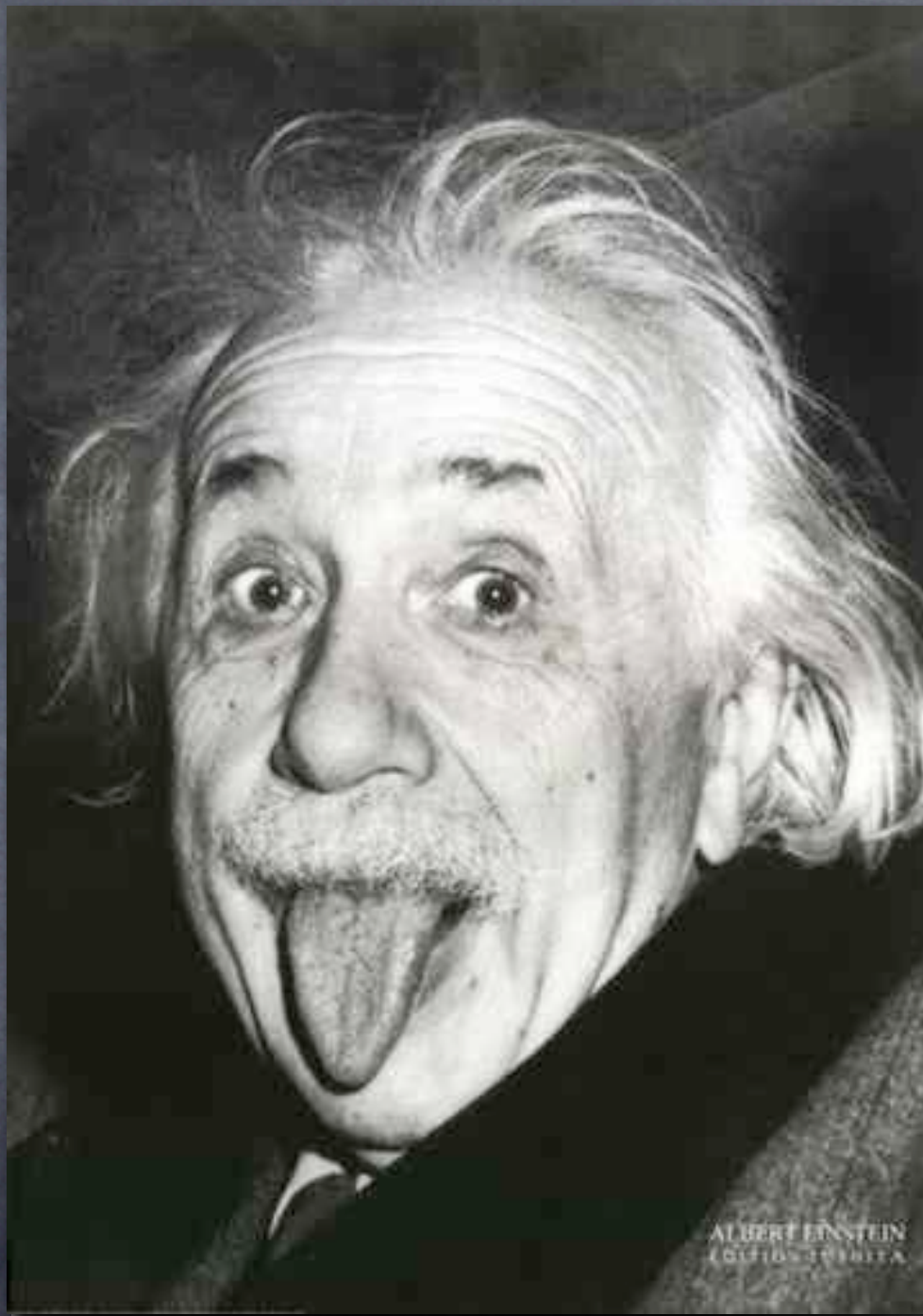
ÉVERSION DU TORE



OBJETS DE DIMENSION 3



ESPACE EUCLIDIEN



FRANÇOIS BERGERON, DEPT. MATH, UQAM

MONT-TREMBLANT 2013

Tuesday, December 3, 13



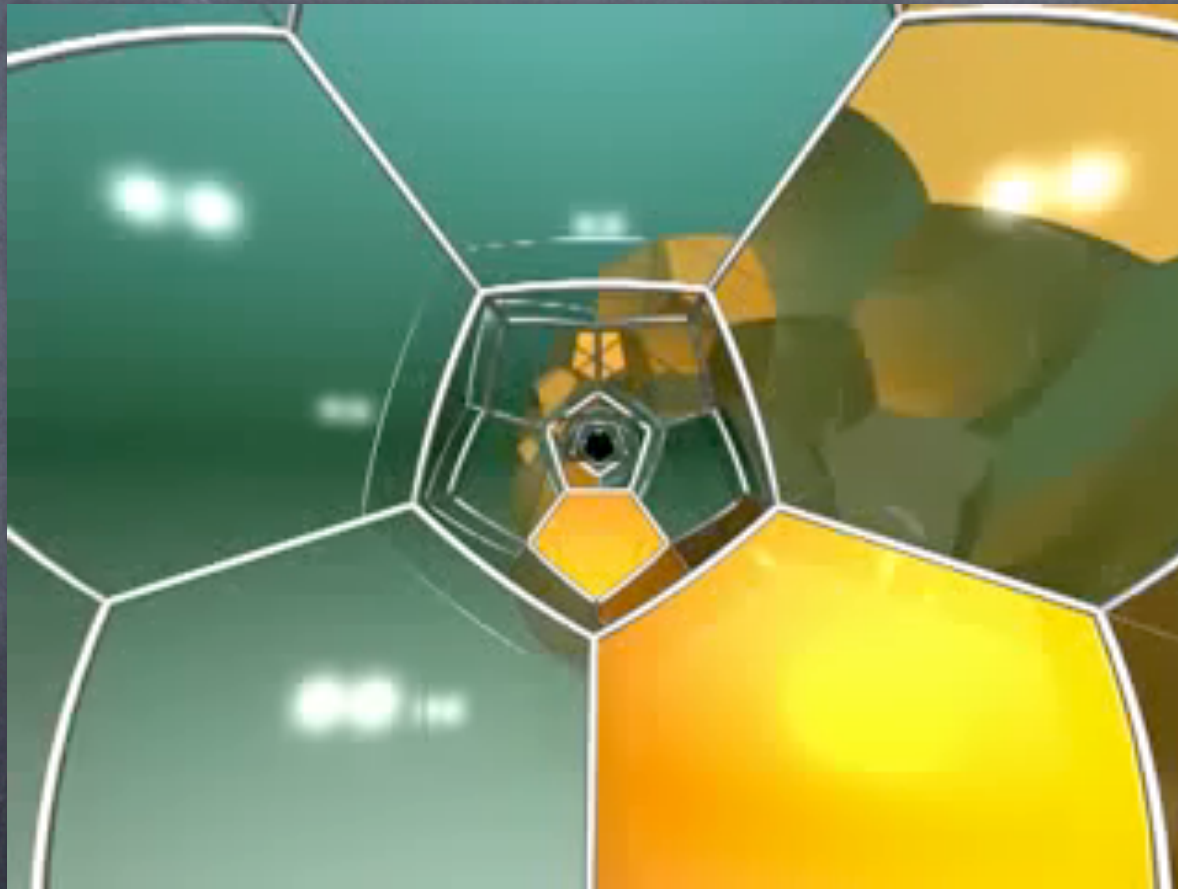
ESPACE NON-EUCLIDIEN

FRANÇOIS BERGERON, DEPT. MATH, UQAM

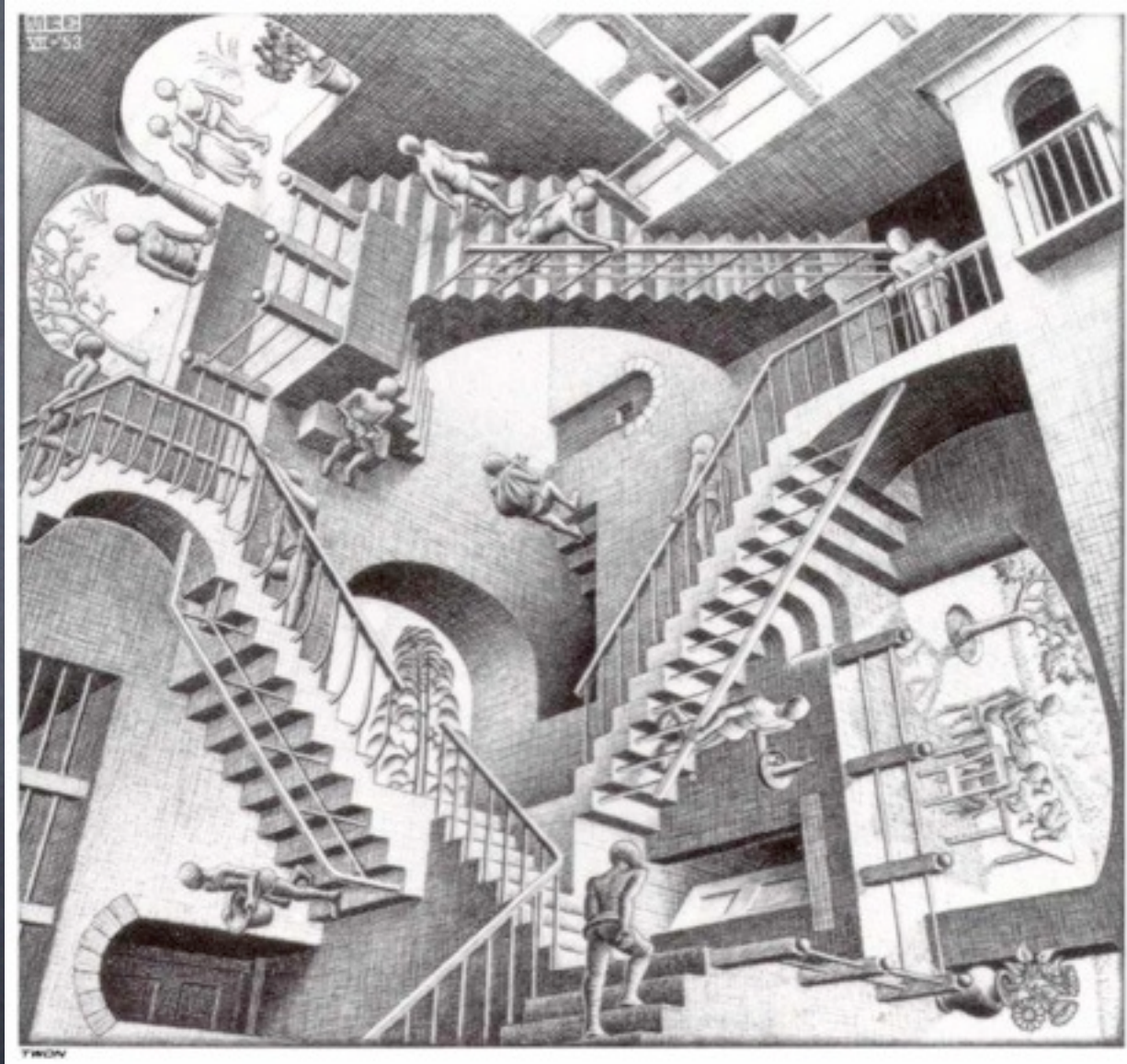
MONT-TREMBLANT 2013

Tuesday, December 3, 13

ESPACE NON-EUCLIDIEN (UN PANORAMA)



LA RELATIVITÉ D'ESCHER



IMITATION D'ESCHER

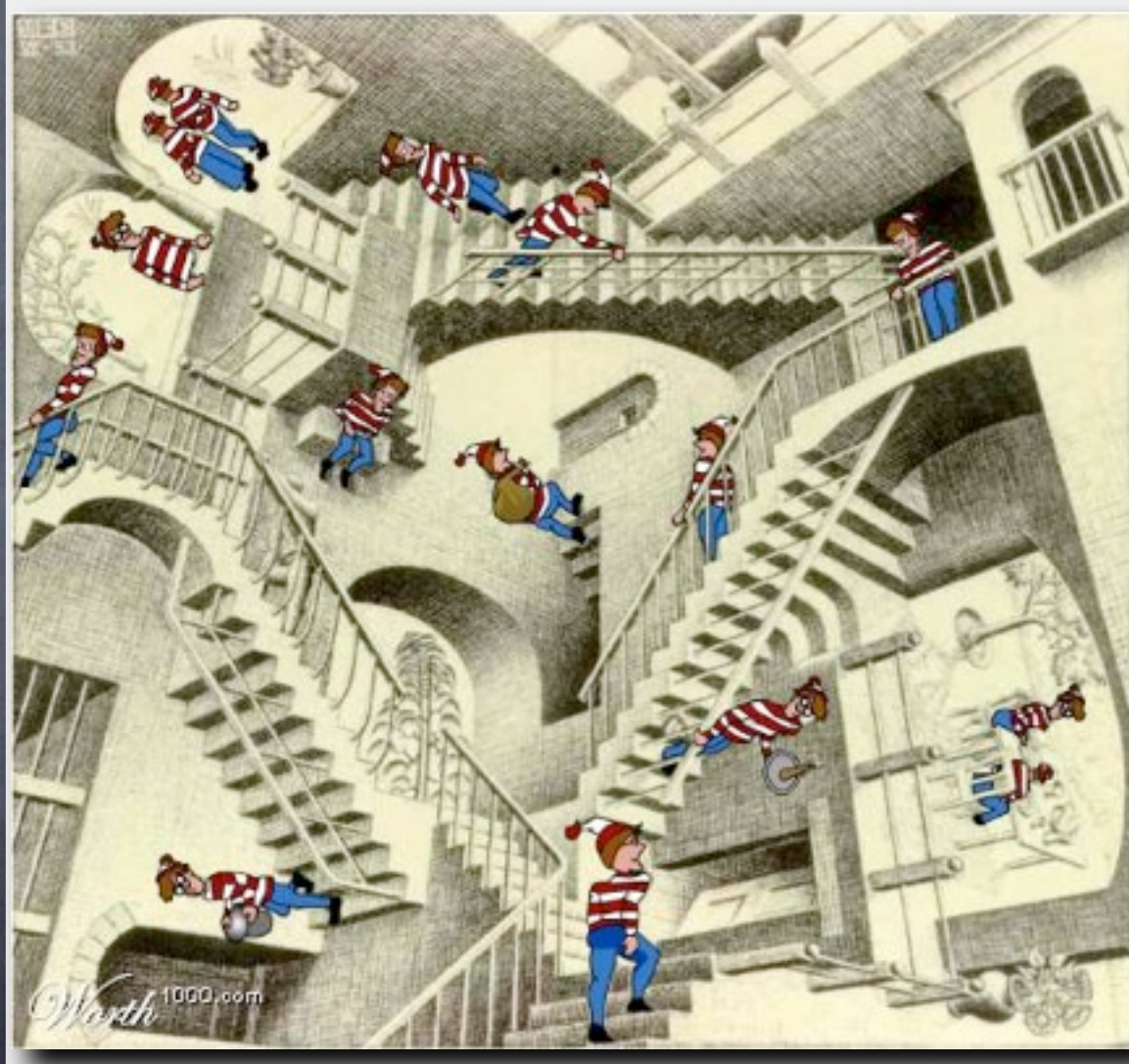


FRANÇOIS BERGERON, DEPT. MATH, UQAM

MONT-TREMBLANT 2013

Tuesday, December 3, 13

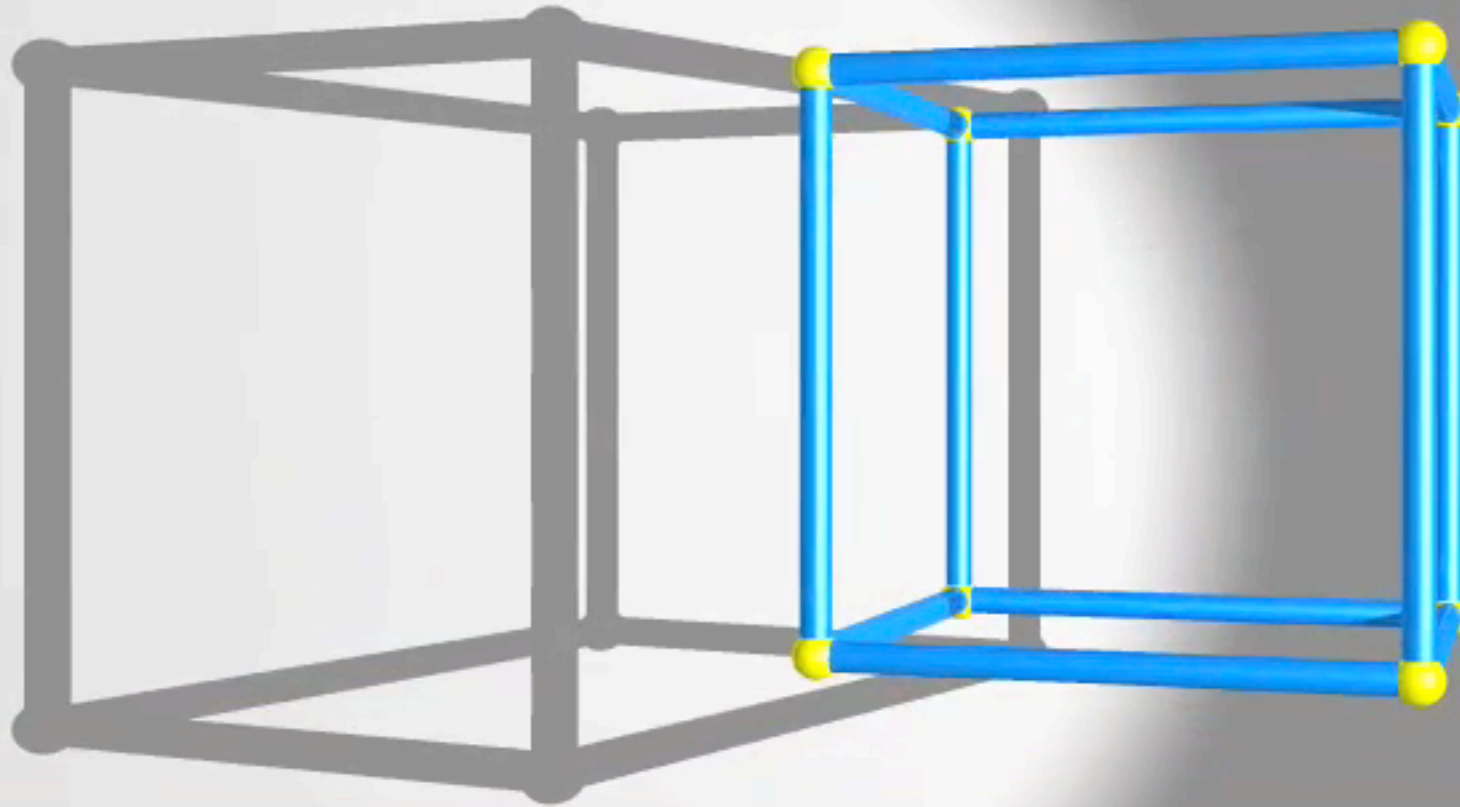
IMITATION D'ESCHER



ACHEVER L'INACHEVABLE



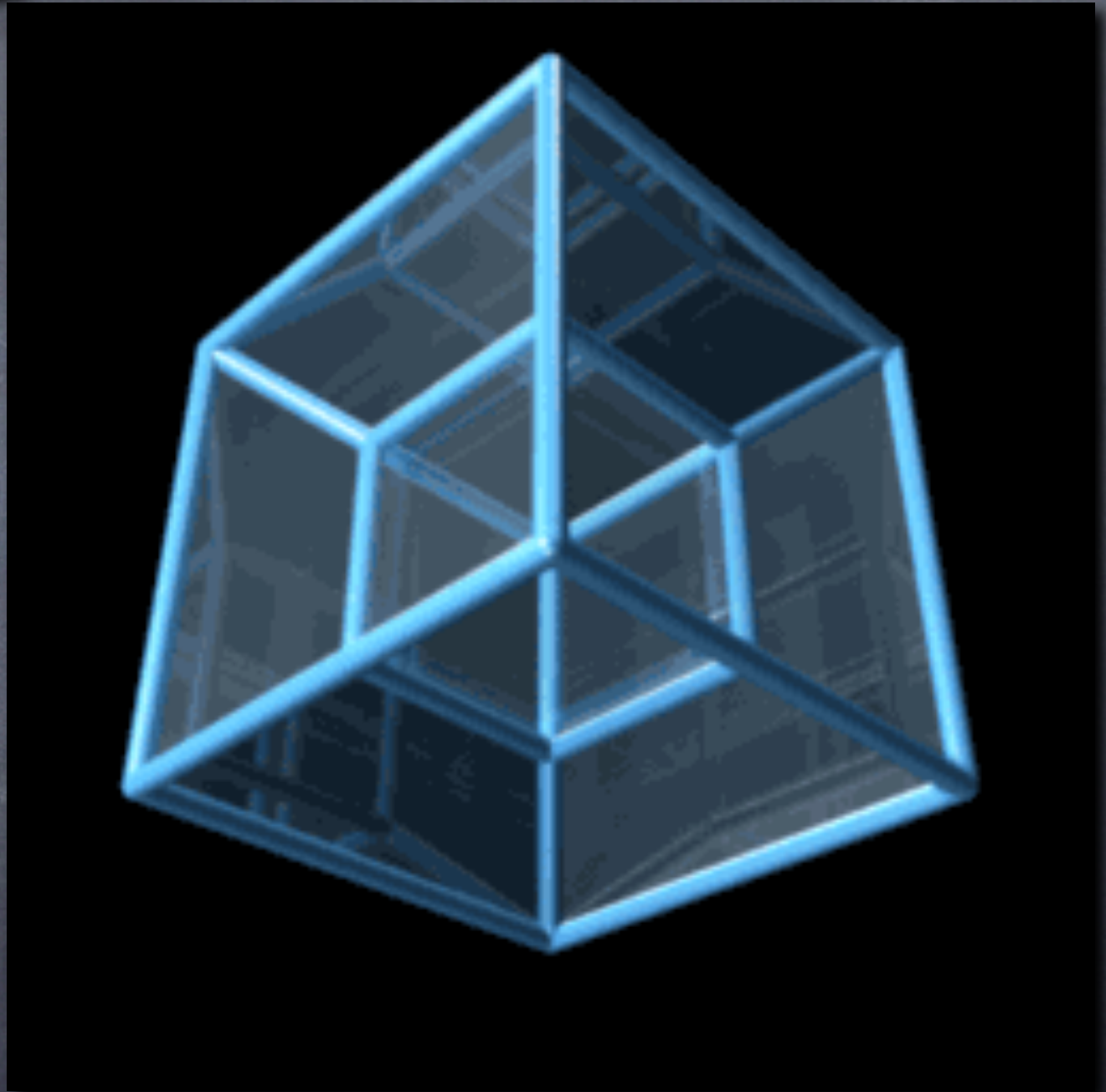
CINÉMA 3D



OBJETS DE DIMENSION 4

CINÉMA 4D

HYPERCUBE



FRANÇOIS BERGERON, DEPT. MATH, UQAM

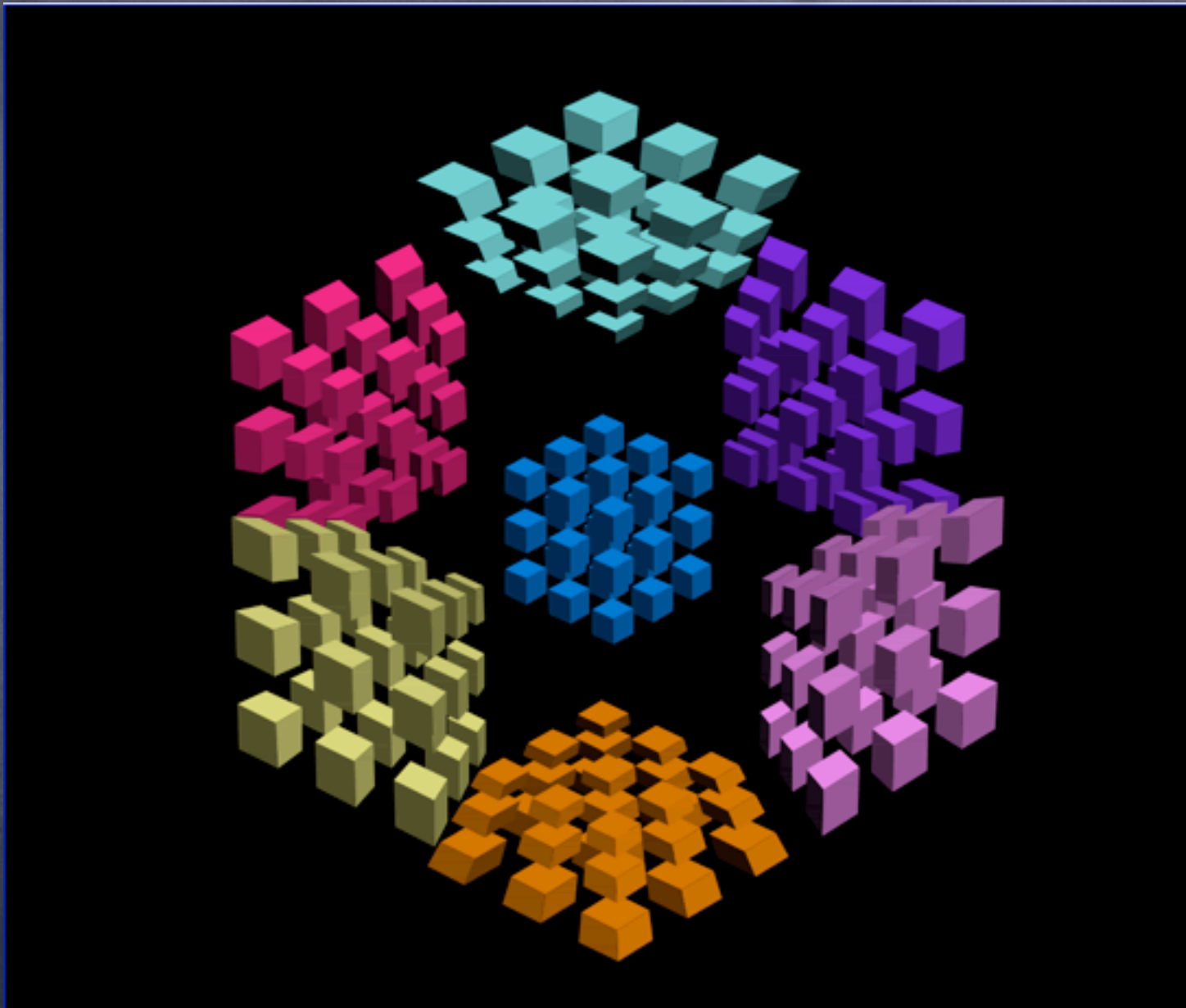
MONT-TREMBLANT 2013

Tuesday, December 3, 13



4Dice

RUBIK 4D

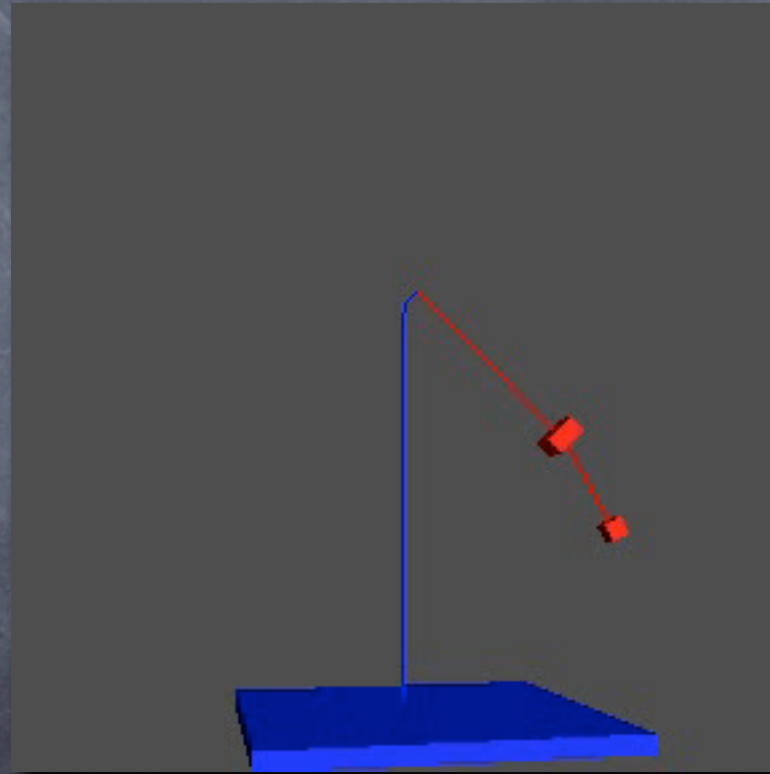


4-SCAN (BLAGUE BILINGUE)

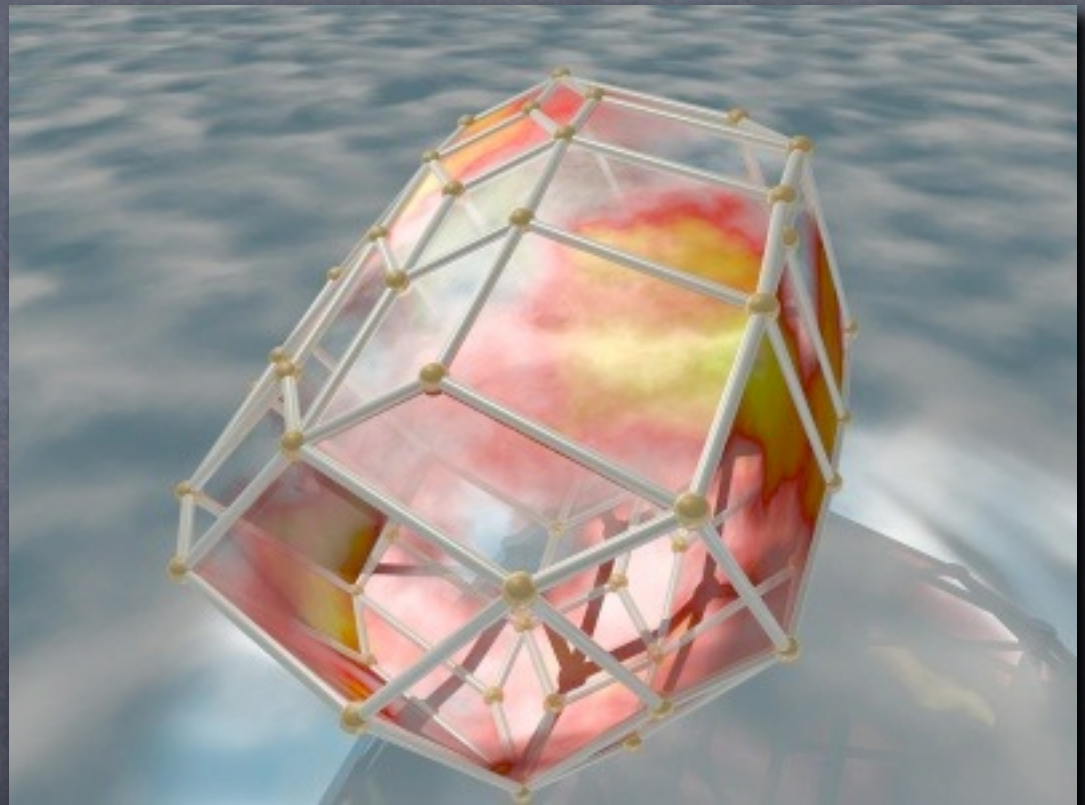


OBJETS DE DIMENSION > 4

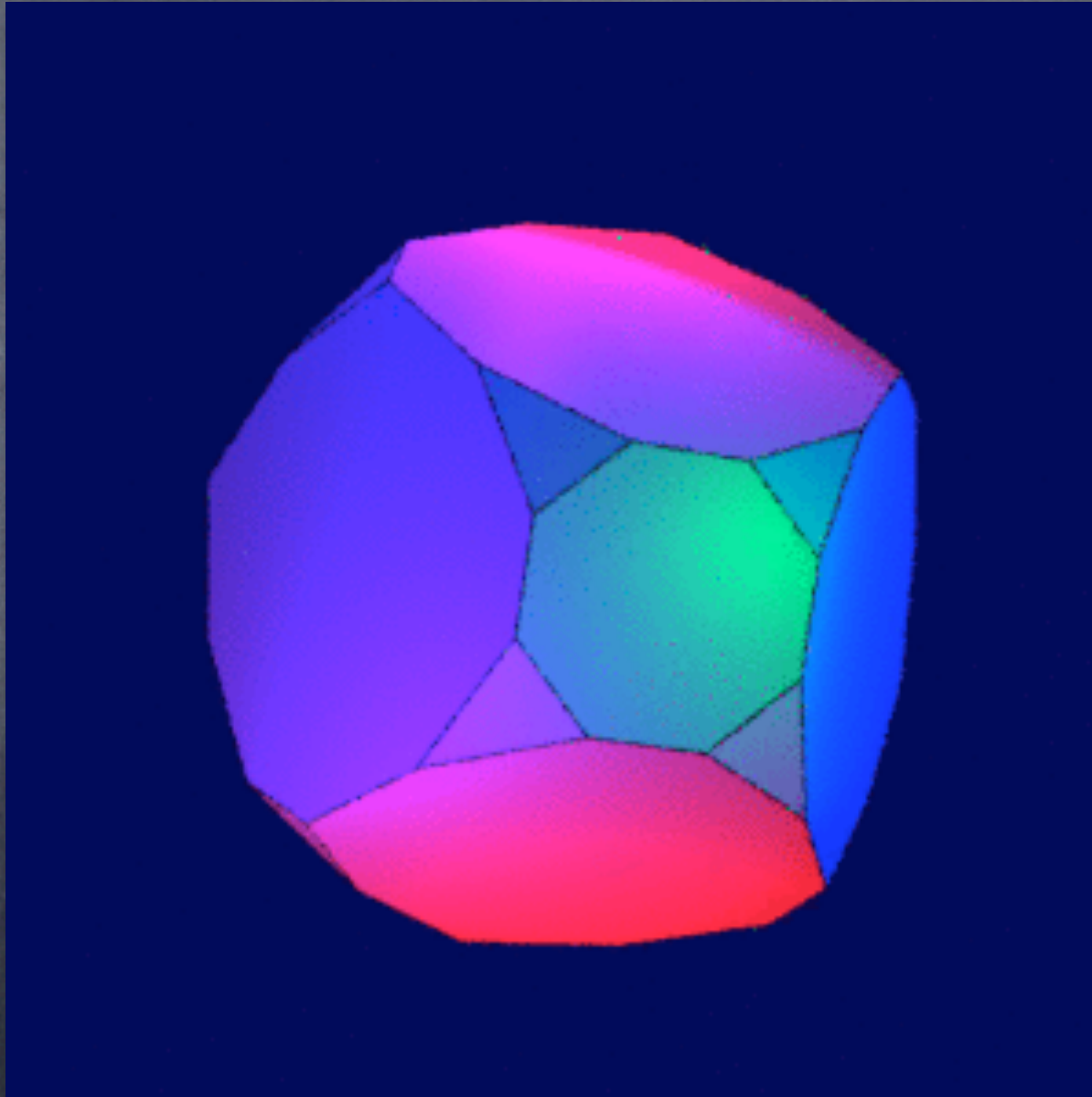
Plusieurs Dimensions (Description complexe)



HYPERCUBE DE DIMENSION 8



PROMENADE DANS UN ESPACE DE GRANDE DIMENSION

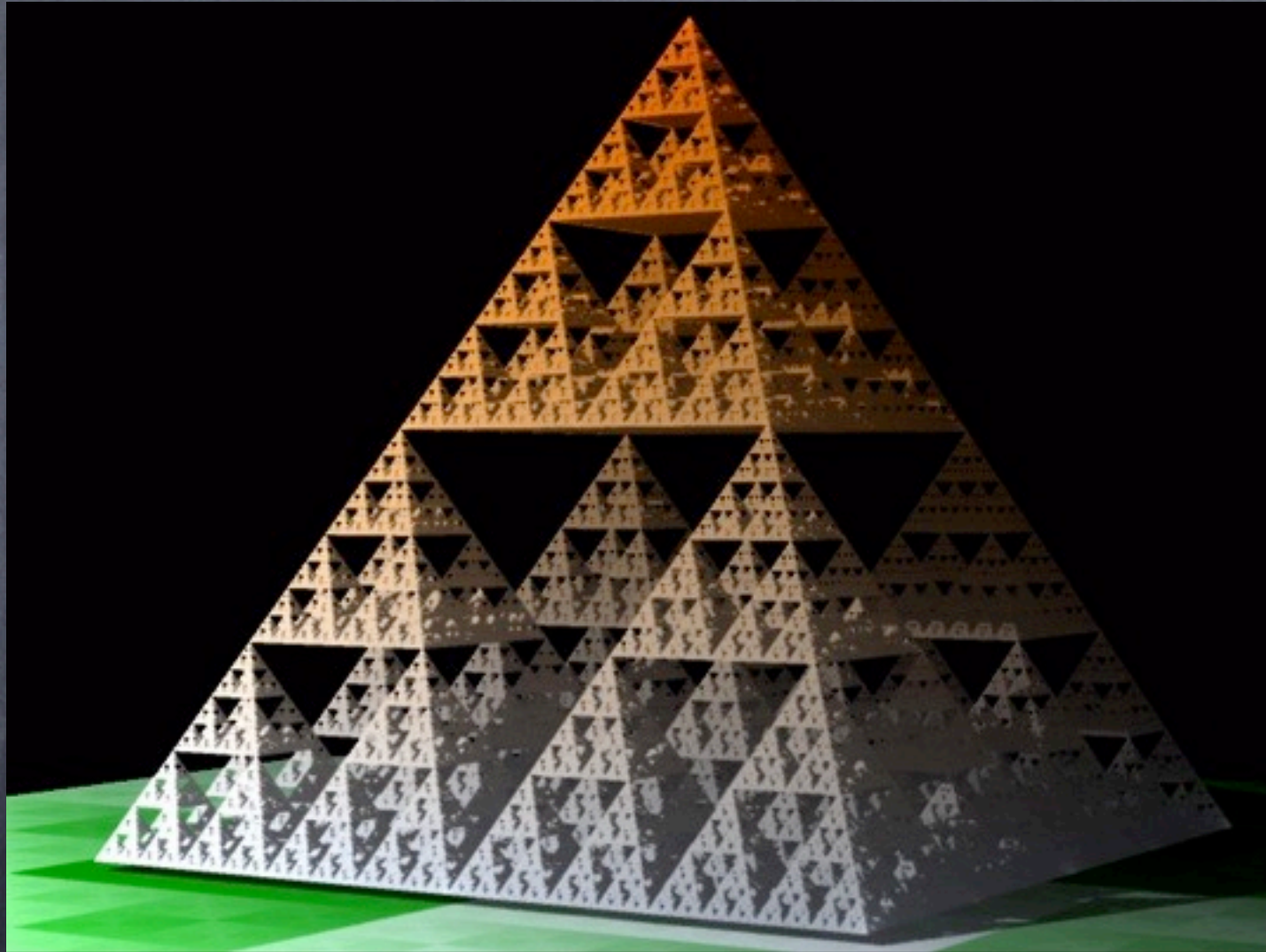


PROMENADE DANS UN ESPACE DE GRANDE DIMENSION



OBJETS DE DIMENSION ?

ARCHITECTE FOU



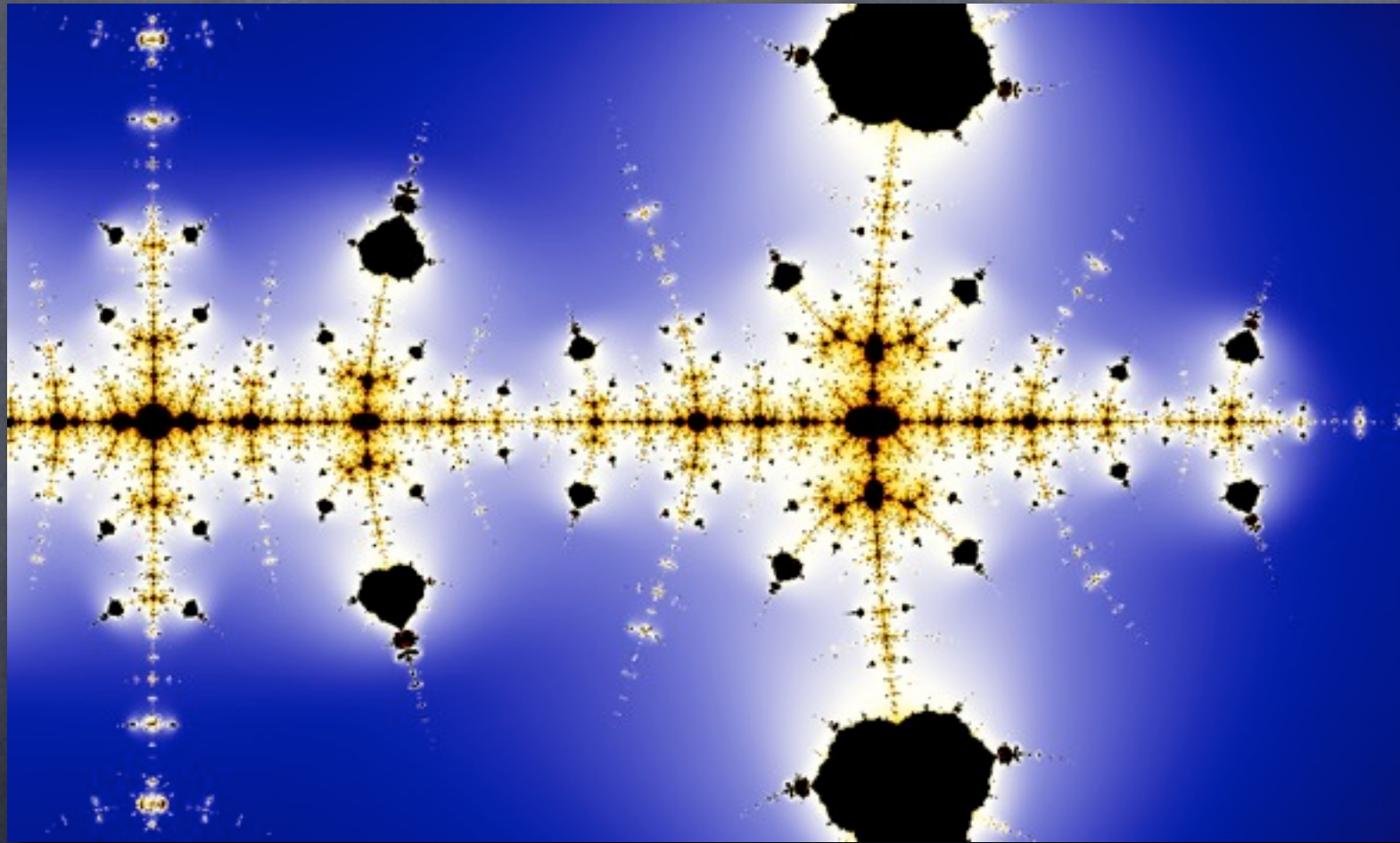


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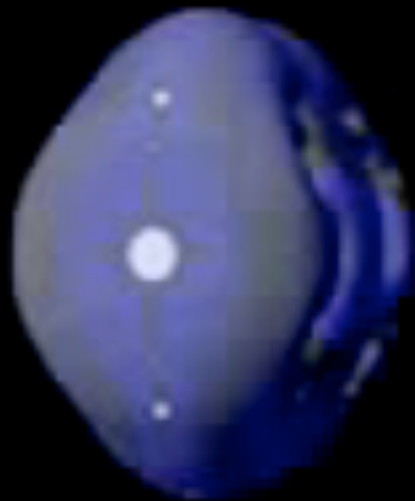
MONT-TREMBLANT 2013

Tuesday, December 3, 13

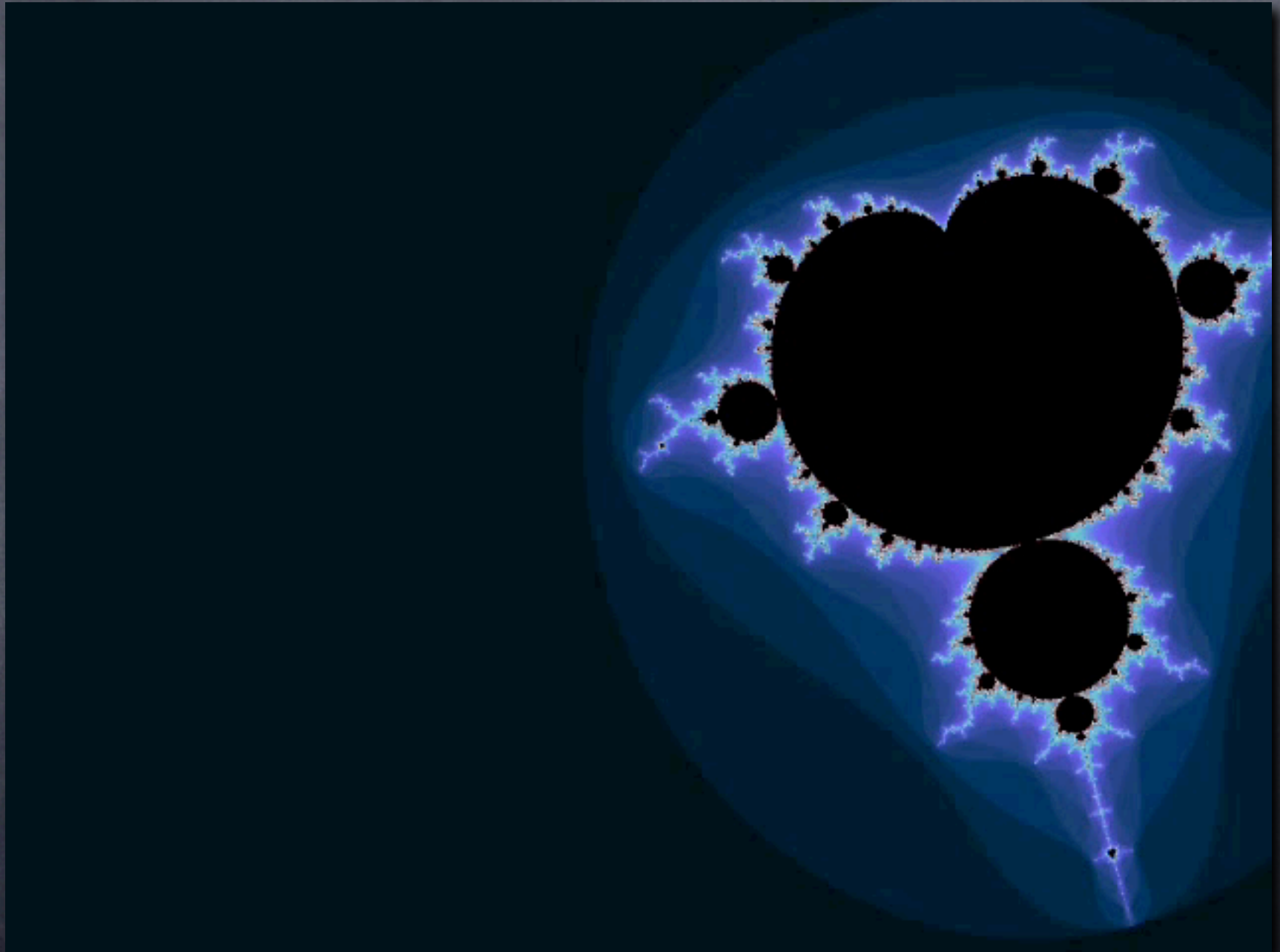
COUCHÉ DE SOLEIL EXTRATERRESTRE



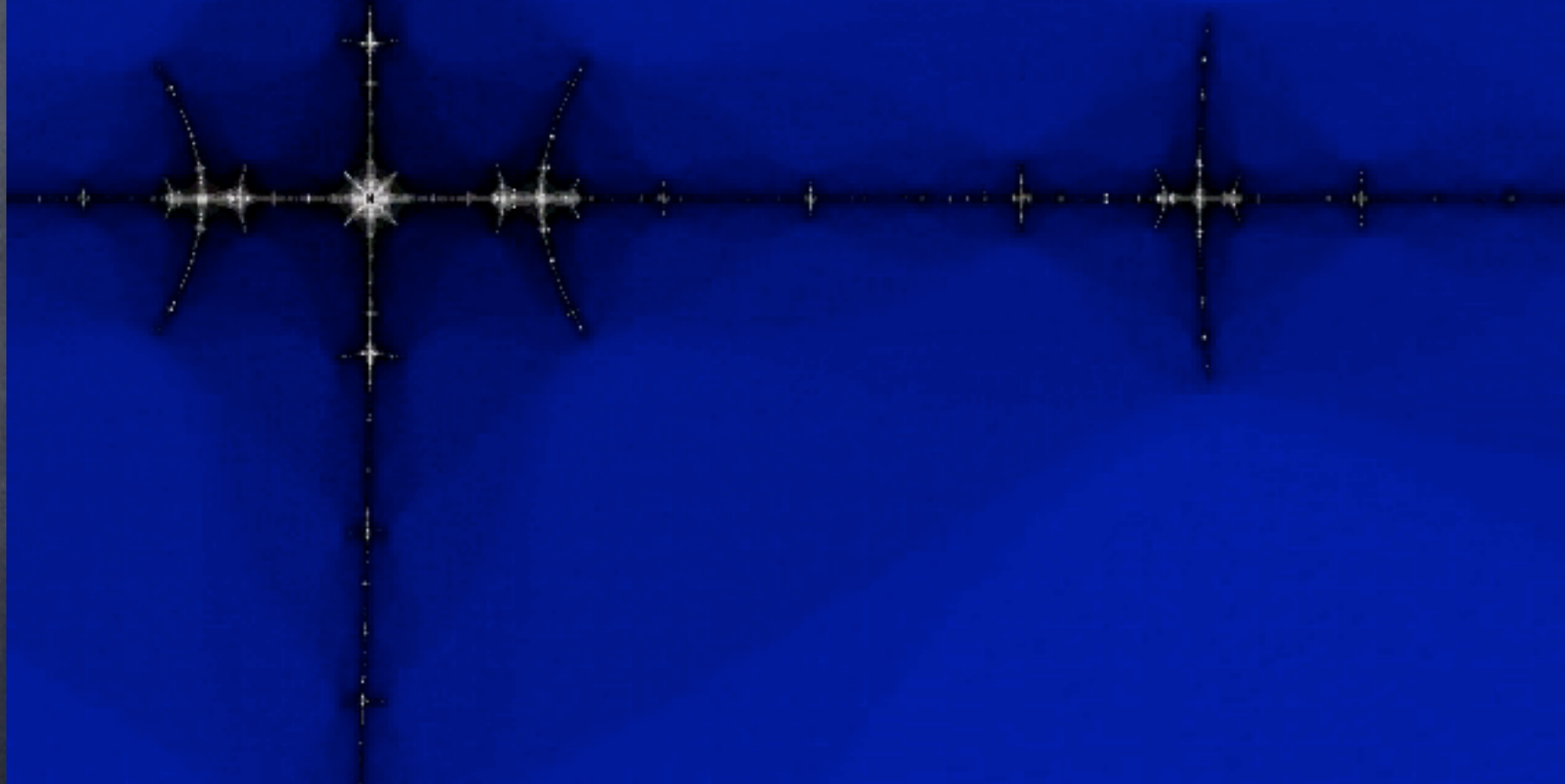
ANOREXIE MATHÉMATIQUE



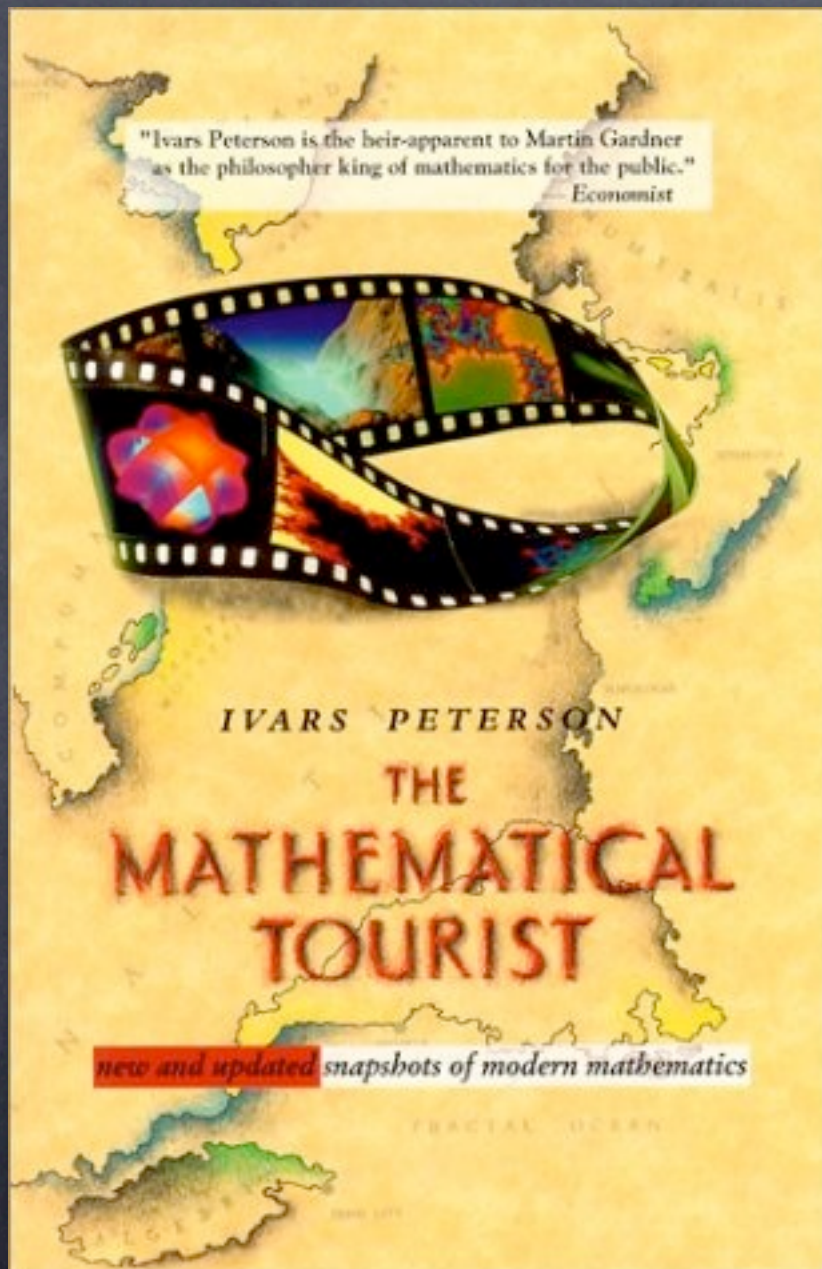
PLONGEON MATHÉMATIQUE



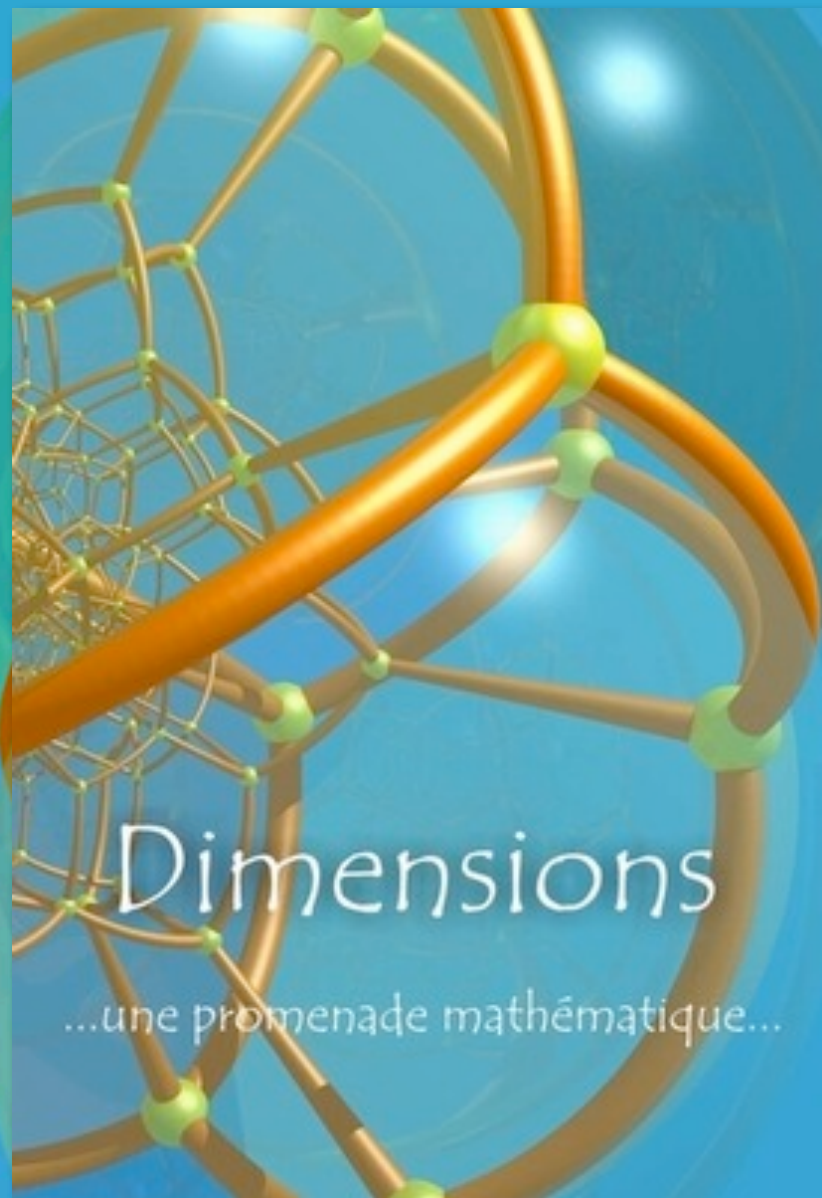
AUTRE PLONGEON



Fin



WWW.MAA.ORG



Dimensions gagne le Prix d'Alembert 2010!

Dimensions wins the 2010 Prix d'Alembert!

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Dimensions

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