



Newsletter

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Dear All,

From the correspondence received by ESMA during these last weeks, it is a pleasure to extract a few interesting information.

*Hamid Naderi Yeganeh (<https://mathematics.culturalspot.org>) «studied mathematics at the University of Qom. Winner of the gold medal at the 38th Iranian Mathematical Society's Competition (May 2014), he likes to create beautiful images from basic mathematical concepts.» A few numerical details of his fine aerial images, giving rise to moiré effects, appeared on <http://ams.org/mathimagery/thumbnails.php?album=40>. Note that some of these images were already mathematically described by Christoph Pöppe in *Pour la Science* (the French edition of *Scientific American*), N° 174, April 1992.*

Of course, one does not need higher mathematics to create beautiful works. In the eyes and the hands of artists, mathematical facts as basic as the Pythagorean theorem for example, are sufficient to create attractive works. Using only such standard results, Malija Belic (for instance <http://geoform.net/artists/milija-belic/>) show us harmonious works in the layout and the colors of the patterns.

More advanced mathematics is used by «fractalist artists», not fractal artists. In that field, our ESMA members Jérémie Brunet et Jos Leys are well known. They have recently produced a joint work: Jos foreworded a book of fractal works made by Jérémie. «L'art fractal, aux frontières de l'imaginaire» was published by the French Éditions Pole. In his useful foreword, Jos gives us some general ideas and tricks to create images of fractals. Then Jérémie shows us 120 of his fantastic and incredible creations. However, since I find it impossible to choose among them, and as the infinite makes me somewhat afraid, I would rather have shown some of his partial and attractive views on infinite fractals. The reader will have an almost complete view of Jérémie's work by looking at his website, <https://www.youtube.com/user/bib993>.



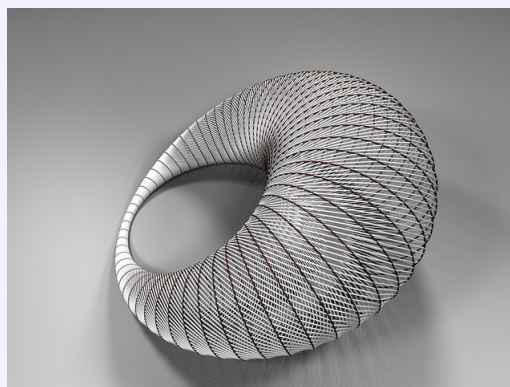
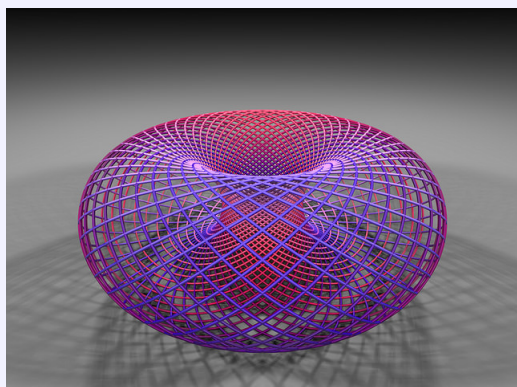
Gilles Baroin, Gilles@Mathemusic.Net, is a mathematician and a musician. It is a real pleasure to listen to his lectures on some elements of the architecture of musical works. If you speak Chinese, you can attend the following lecture:

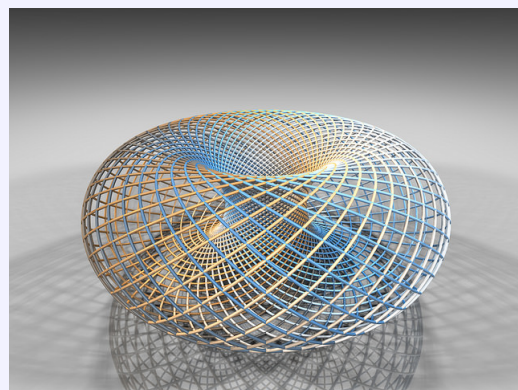
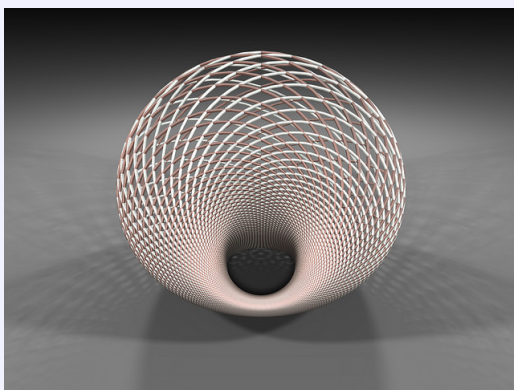
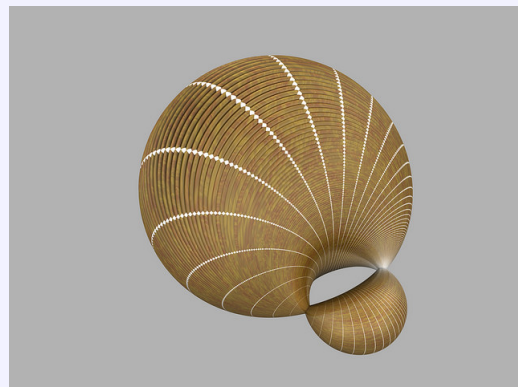
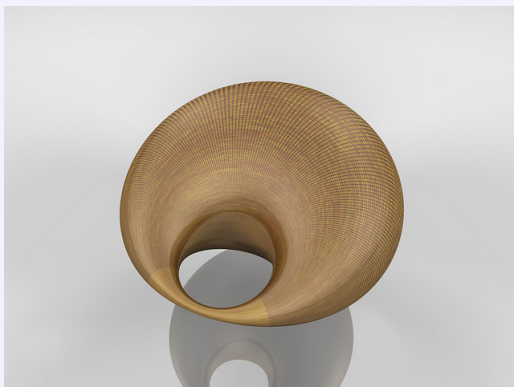
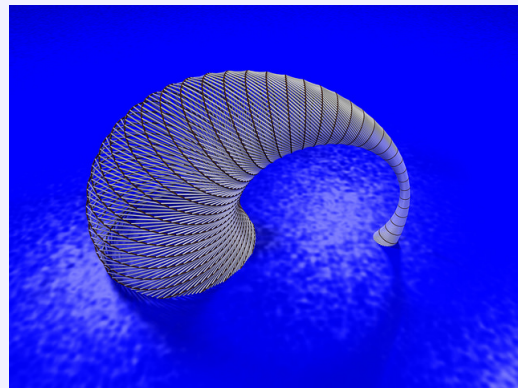
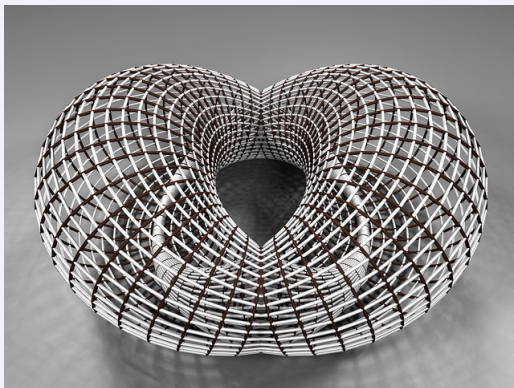
<https://www.youtube.com/watch?v=J7iReUVgOLM> extracted from the rich and witty web-site <http://www.MatheMusic.net>. You will enjoy the examples of Baroin's representations of pitches in se, and their illustrations in the analysis of pieces by Albin, Beethoven, Chopin, Schoenberg, Strawinski, Webern. You will even listen to a «theme from the third movement of the third symphony from Brahms, arranged by S. Gainsbourg and performed by J.Birkin»!

Donations will be gratefully received: how could ESMA set up exhibits and publish written documents without a sufficient amount of artistic papers produced by banks?

Best wishes,
Claude

Francesco De Comite plays with Dupin's cycloid
Illustration of the general concept of deformation (variation in music, distortion in other fields). It concerns not only the shape but any property like position, color, ...





Claude Bruter, Publisher. Contributors: François Apéry, Gilles Baroin, Malija Belic, Jérémie Brunet, Sharon Breit-Giraud, Francesco De Comite, Richard Denner, Jos Leys, Hamid Naderi Yeganeh.

Website: <http://www.math-art.eu>