



# MATHEMATICS AND BEAUTY

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**Abstract:**

I will give a short general overview, in three illustrated acts, of the relationships between art, mathematics and computer science. The first act deals with a superficial level of interaction between art and mathematics, in which mathematical objects (solids, knots, surfaces...) are used as subjects of the works of art. The second act deals with a deeper level of penetration, in which mathematical concepts (tessellations, perspective, hyperbolic geometry ...) are used as structures for the works of art. And the third act deals with an even deeper level of integration, in which computers and programs are used as tools by the artist, to achieve infinitary extensions of the finitary procedures used in the previous two acts.

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مکان: میدان شهید باهنر، پژوهشگاه دانشهای بنیادی (مرکز تحقیقات فیزیک نظری و

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