

**Mehrdad Garousi****Artwork: Subatomic Big Bangs****Topic: Fractal Art (Animation)****Author:****Mehrdad Garousi**

Freelance fractal artist

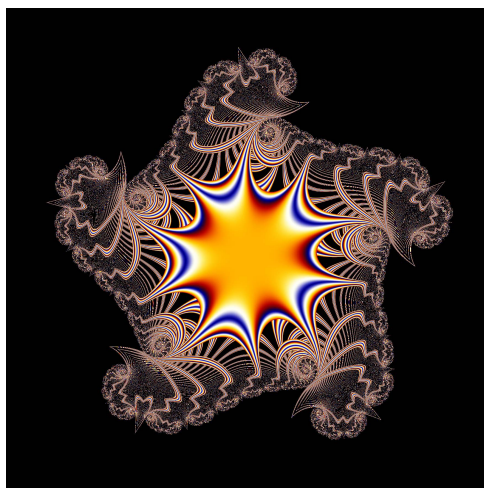
Iran

<http://mehrdadart.deviantart.com>**Reference:**

[1]

<http://mehrdadart.deviantart.com/art/Subatomic-Big-Bangs-129996917>**Abstract:**

This piece is a fractal animation describing one of the most wonderful phenomena of quantum physics in sudden production and interchanges of huge amounts of energy due to some subatomic interactions of which there has not been provided any clear visual representation up to now. This animation, by exploiting several properties of fractal mathematics symbolically presents a mathematically nature-based depiction of this property. The animation begins with a dark blank space while several brilliant spots gradually (light quantum) start to appear and construct a bright pentagonal pattern at the center of the page. Over the time, being energized from the poles of the polygon, spots grow into some strings of energy and get longer and more powerful continuously. The main corners of the basic polygon are the significant poles of energy in our set. When the poles are energized, their strings get stronger and closer to the same ones of the other poles, until their energy becomes greater than their capacity and they touch each other and a big bang occurs. At the moment of the bang, huge amounts of energy are exchanged between the strings and the poles, which is shown by rapid color changes and motions. After each eruption the energy level of the poles decreases and strings are retracted inside the poles another time. Ultimately, after a lot of eruptions and alternative retractions and expansions, strings decompose and tend to the last deenergization in the poles and inversely like the first moments of the animation interchange to the dots and disappear. It is also mentionable that each of the main or sub poles in fact is continued infinitely inside its centre as an infinite hole, therefore the source of the energies is actually the infinity inside a blank space and everything comes out from there.

*Two still frames of the animation***Contact:**[mehrdad\\_fractal@yahoo.com](mailto:mehrdad_fractal@yahoo.com)**Keywords:**

Fractal, energy, quantum, animation, bang