

## 4) The complete Lesbian Mystery

Figure 1 shows a rather sophisticated Julia set, the contour made up of two-armed spirals and 14-armed stars. Is this a connected Julia set or Cantor dusts? However in cases where it's not so obvious to see which type the Julia set belongs to, there is one method, zoom in against  $z = 0$ , which is the critical point for the dynamical process  $z \rightarrow z^2 + c$ . *If the critical point belongs to the filled-in Julia set (that's the Julia set plus eventually enclosed regions) the Julia set is connected, otherwise not.*

So let's zoom into the centre to get the answer of our silent question (figures 1 - 4). Each motive is zoomed into the centre of the above motive.

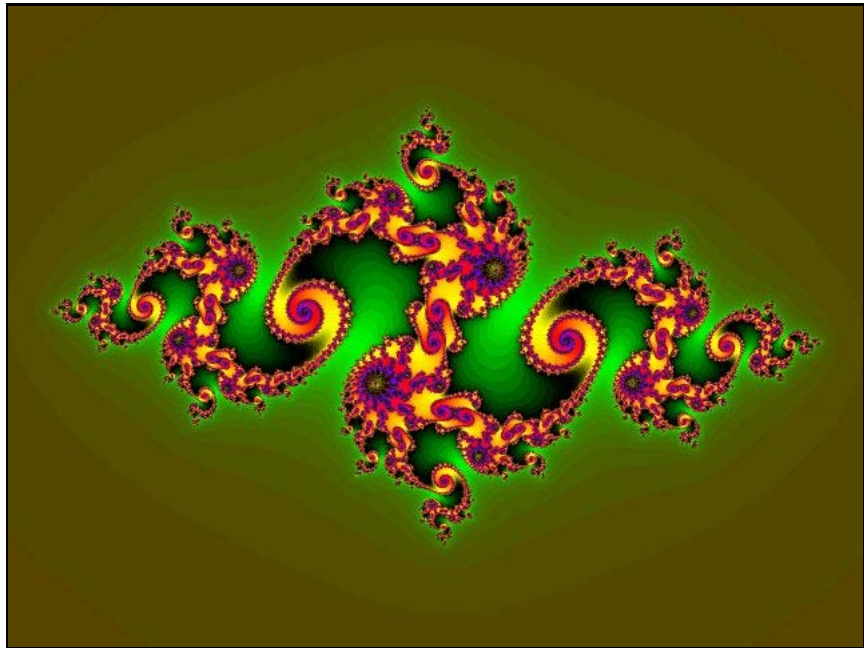


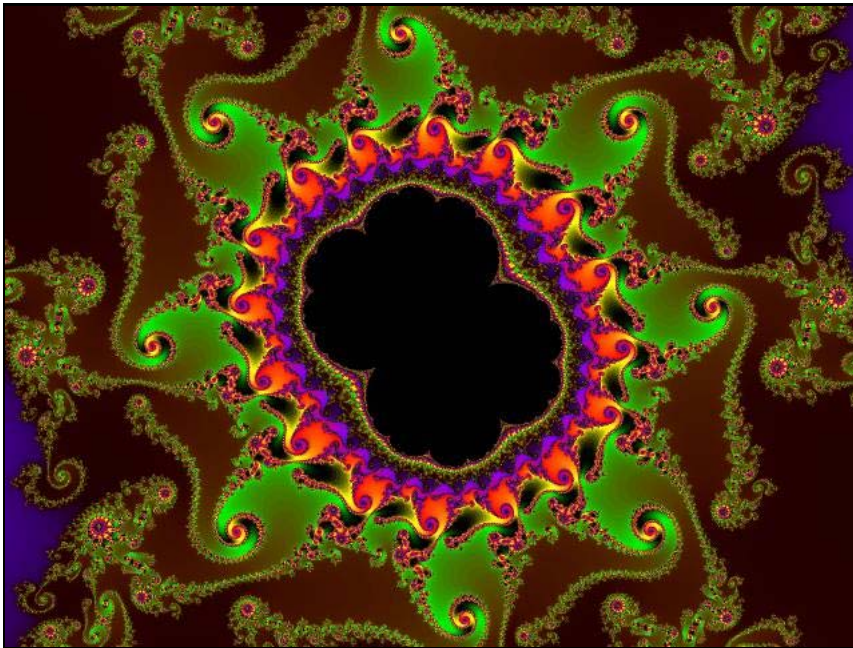
Fig 1.



Fig 2.



**Fig 3.**



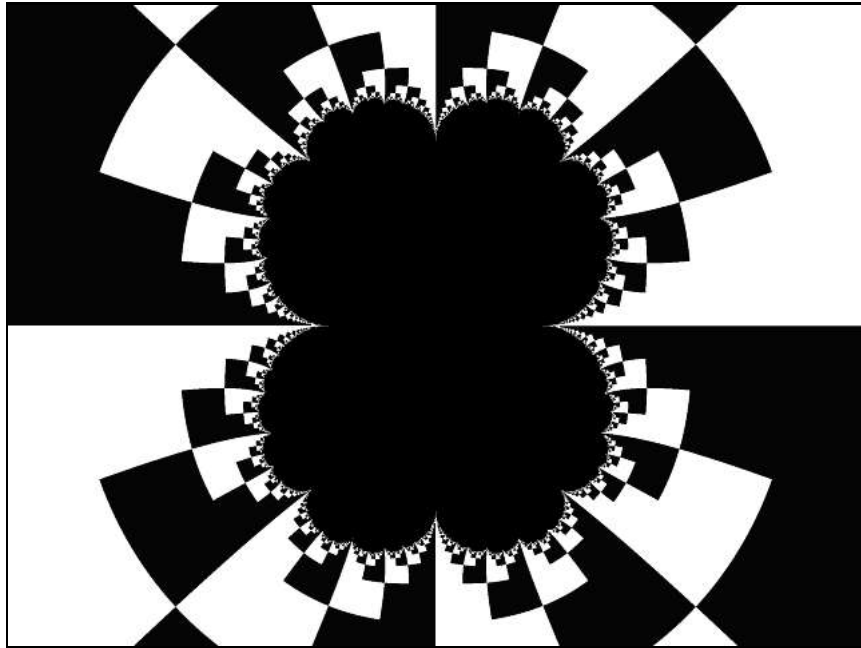
**Fig 4.**

Inside the bridge between the 2-armed spirals, there are four 2-armed spirals, then eight smaller 2-armed spirals, then an infinity of 2-armed spirals infinite near a cauliflower-formed enclosed domain enclosing the critical point  $z = 0$ . Thus it can be stated:

1. The Julia set is connected (and disc-like) since the critical point  $z = 0$  belongs to the filled-in Julia set.

2. The whole Julia set is totally made up of an infinite hierarchy of cauliflower-structures with filaments to there acupuncture points.

3. The acupuncture points of each cauliflower are their aisles. This can be seen in figure 5: "Binary Proto Cauli", there a original-cauliflower Julia is shown with binary decomposition.



**Fig 5. Binary  
Proto Cauli.**

4. As the filaments are made up of infinitely many cauliflowers, each aisle of every cauliflower is joined to an aisle of another cauliflower, where the second one is infinitely smaller than the first. *This complete lesbian mystery can only take place in the infinite smallness, a smallness were all laws regarding what's possible or not have broken down.*

5. In the center of each of the 14-armed stars, a center that does not exist and yet exist, the situation is completely absurd. There is an infinitely small cauliflower joining one of its aisles to 13 other aisles of cauliflowers (since the star has 14 arms), cauliflowers that are infinitely smaller than the first one.

Maybe the infinite emptiness is the womb of all creation.

Now the intelligent reader for sure wonder how the parameter value:

$$c = -0.770930796610917792 + 0.116025116127935824i$$

that is responsible for this sophisticated Julia set could be found?

To begin answer this question we will move from the dynamical (z) plane to the parameter (c) plane. But that's for article 5.

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Regards

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