

1024-37-164

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PA 15705. *Dynamics of a 3-Circle Inversion Map*. Preliminary report.

We investigate a mapping derived via geometric circle inversion. Our map is constructed by inverting a point  $z$  about three circles placed symmetrically about the origin, giving us three inversion images. We take the arithmetic mean of the three inversion images as the image of  $z$  under our map. We refer to this as a “3-Circle Inversion”. The Julia set of this map and the map’s dynamic properties will be discussed. (Received January 07, 2007)