

Re: Cut a point into two – topological?

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- *From:* "Hero" <Hero.van.Jindelt@xxxxxx>
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Bob Kolker wrote:

Hero wrote:

Regard a point as a hole , so it can be "cut" into two just as several holes can merge into one:

How do you cut something with zero width? A point is not a set of things so you can't split the point into two non-empty sets.

So You define a „cut" as a separation of a set P into two non-empty sets PA and PB , with $P = PA \cup PB$, and with $PA \cap PB = \{ \}$, and with $PA \cap \{ \} = \{ \} = PB$. Did i understand You? With it we have one definition of a „cut" and that is what i'm looking for. There must be other topological „cuts", as there is a cut, with which one can open a ring.
Is for You a point a set with one element: point $P = \{ p \}$? So what is p ?
Or is for You a point P one element of a set with one element , we have $Q = \{ P \}$, so Your definition – if i did understand You – applies to Q , not P .

With friendly greetings
Hero

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