

Re: Separation, Power and Countability.

Re: Separation, Power and Countability.

Source: <http://sci.tech-archive.net/Archive/sci.math/2007-06/msg02517.html>

- *From:* Rupert <rupertmccallum@xxxxxxxxxx>
 - *Date:* Wed, 13 Jun 2007 17:19:21 -0700
-

On Jun 14, 9:45 am, zuhair <zaljo...@xxxxxxxxxx> wrote:

On Jun 13, 5:50 pm, Rupert <rupertmccal...@xxxxxxxxxx> wrote:

On Jun 14, 7:57 am, zuhair <zaljo...@xxxxxxxxxx> wrote:

Hi all,

This will be the last post of mine to this group.

In the wikipedia, the axiom schema of separation is wrote in this way:

1) if P is a formula in one variable that doesn't use the symbol x ,
then $\forall x \exists y (y \in x \leftrightarrow (y \in A \ \& \ P(y)))$ is an axiom.

Now what is exactly meant by 'formula in one variable that doesn't use the symbol x ', does that mean that it might contain other variables that use the symbol x and only one variable is permitted not to use the symbol x , I don't think so.

Re: Separation, Power and Countability.

Or does it mean 'formula in one free variable, and that this free variable is not x'.

It means a formula in one free variable, and x does not occur in the formula at all.