

Re: A set containing a nonempty open interval

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-08/msg05318.html>

- *From:* David C. Ullrich <ullrich@xxxxxxxxxxxxxxxxxxxx>
 - *Date:* Sat, 27 Aug 2005 07:46:29 -0500
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On Fri, 26 Aug 2005 20:37:42 +0000 (UTC), klewis@xxxxxxxxxxxxxxxxxxxx
(Keith A. Lewis) wrote:

>A N Niel <anniel@xxxxxxxxxxxxxxxxxxxx> writes in article
<260820051428574700%anniel@xxxxxxxxxxxxxxxxxxxx> dated Fri, 26 Aug 2005 14:28:57 -0400:
>>In article <denmfc\$05k\$1@xxxxxxxxxxxxxxxxxxxx>, Keith A. Lewis
>><klewis@xxxxxxxxxxxxxxxxxxxx> wrote:
>>
>>> "Amanda" <sca18@xxxxxxxxxxxx> writes in article
>>> <1125067955.450481.88600@xxxxxxxxxxxxxxxxxxxx> dated 26 Aug 2005
>>> 07:52:35 -0700:
>>> >
>>> >I'd like some hints on how to prove that, if a set S has positive
>>> >Lebesgue measure, then $(A + A)/2 = \{(x + y)/2 \mid x \text{ and } y \text{ are in } A\}$
>>> >contains a non-empty open interval.
>>>
>>> Unless you specify $x \triangleleft y$, you might get all closed intervals.
>>
>>By "contains a non-empty open interval" he means it has a subset which
>>is a non-empty open interval.
>
>Since every interval has a subset which is an open interval, I wonder why
>the word "open" is even in the question. Probably not important, I guess.

The closed interval $[0,0]$ does not contain a (nonempty) open interval.

>—Keith Lewis klewis {at} mitre.org
>The above may not (yet) represent the opinions of my employer.

David C. Ullrich
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- *References:*
 - ◆ *A set containing a nonempty open interval*

Re: A set containing a nonempty open interval

◇ *From: Amanda*

◆ ***Re: A set containing a nonempty open interval***

◇ *From: Keith A. Lewis*

◆ ***Re: A set containing a nonempty open interval***

◇ *From: A N Niel*

◆ ***Re: A set containing a nonempty open interval***

◇ *From: Keith A. Lewis*

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