

# Re: Whats wrong with the theory... The horizon problem!

**Source:** <http://sci.tech-archive.net/Archive/sci.physics/2005-03/10997.html>

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John Sefton wrote:

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> *Sam Wormley wrote:*

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>> *bipin.gautam@gmail.com wrote:*

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>>> *I'm confused about: <http://www.astro.ucla.edu/~wright/nocenter.html>*

>>>

>>> *if everything started with a point mass(big bang)... with no obstacles*

>>> *to hinge to move the mass in all direction..... then everything*

>>> *should have a centre from where it was originated.*

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>> *But all points are equally the center.... and it is the whole universe*

>> *that is expanding, not matter and energy into the universe.*

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>

> *Expanding wrt \*what\*, Sam?*

With respect to the earlier state. Every distance (between things which are not bound to each other) increases with time.

> *If what is outside the matter has no*

> *properties, then there is nothing but the*

> *matter to compare it to.*

What exactly do you mean with "outside" here?

[snip]

> *How big is the universe compared to*

> *what it was at the time of the BB?*

sci.physics: Re: Whats wrong with the theory... The horizon problem!

If the universe is closed, it is now infinitely greater than at the time of the BB (since any number greater than zero is infinitely greater than zero). If it is flat or open, it was infinitely large at the time of the BB, and still is.

[snip]

Bye,  
Bjoern