

# Re: Stardust matter predictions

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*Source:* <http://sci.tech-archive.net/Archive/sci.astro/2006-01/msg00190.html>

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- *From:* [jgreen@xxxxxxxxxxx](mailto:jgreen@xxxxxxxxxxx)
  - *Date:* 17 Jan 2006 17:21:29 -0800
- 

Jonathan Silverlight wrote:

> In message <1137471020.705637.113700@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>,  
> jgreen@xxxxxxxxxxx writes  
>>  
>>Jonathan Silverlight wrote:  
>>  
>>> In message <[nrPyf.7578\\$Zo.7437@trnddc07](mailto:nrPyf.7578$Zo.7437@trnddc07)>, Mark F. <res049nn@xxxxxxx>  
>>> writes  
>>>>  
>>>><jgreen@xxxxxxxxxxx> wrote in message  
>>>>[news:1137387585.579767.123650@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:1137387585.579767.123650@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)  
>>>>> Astronomers place great faith in their ability to analyse the chemical  
>>>>> composition of distant objects by spectroscopy.  
>>>>> Assuming that such has been done by observers of the source of the  
>>>>> material, how will those predictions shape up? What WILL the material  
>>>>> consist of, and what were the predictions?  
>>>>>  
>>>>  
>>>>My prediction is.  
>>>>It must be cheese, just like the moon!  
>>>>  
>>>>  
>>>>I've asked this before, but did an astronomer really compare the  
>>>>spectrum of cheese with that of the moon?  
>>>>It appears in Robert Heinlein's "Rocketship Galileo" and I've often  
>>>>wondered if it was something he made up or a real event.  
>>>>  
>>>>A very predictable silence.  
>>>>  
>>>>The only silence I've noted around here is your reply to my post about  
>>>>the Magellanic clouds (thread "Milky Way Galaxy is warped and vibrating  
>>>>like a drum")  
>>>>  
>>>>If predictions have been made as to the chemistry from analysis of  
>>>>spectroscopic data treated via Einstein, and it turns out to be way off  
>>>>base, BIG problems for astronomers as to what OTHER mistaken notions  
>>>>they may have as to the composition of cosmic entities.

Re: Stardust matter predictions

- > > A chance here to put analytical spectroscopy to the test.
- >
- > And just what has relativity to do with spectroscopy, at least for solar
- > system objects?
- > Spectroscopy is a fairly blunt instrument, but for instance this paper
- > <<http://adsabs.harvard.edu/abs/1988PhDT.....13B>> says "A mixture of
- > carbon and silicates fits the data. The derived carbon-to-silicon
- > abundance for this mixture is approx. 0.7, consistent with some other
- > results, but lower than the value derived from mass spectrometry."
- > It will be interesting to see if comet Wild is similar. I doubt the
- > detailed analysis will wildly (sorry :-)) differ from the carbon/silicate
- > model. And it will be very detailed – isotope composition, microprobe
- > analysis, all the resources of the world's laboratories to compare what
- > we know by remote sensing and space probes. Note that we already have
- > mass spectrometer data for the composition of cometary dust grains from
- > the Giotto, Vega and Stardust probes, so we can compare them. I don't
- > think Deep Impact had one, and sadly CONTOUR was lost.
- > Deep Space 1 used an infrared spectrometer to observe comet Borelly, and
- > Deep Impact used one on Tempel 1. We aren't just talking about
- > spectroscopy of the coma any more.

Thanks. That is the sort of reply I was after.

My point being, to extrapolate the consensus of otherwise of these two analysis (lab and spec), to the likelihood of accurate analysis of the composition of distant stars/galaxies/jets etc

Jim G

c'=c+v

(I'll have a look for that other– it has slipped my screen)

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• *Follow-Ups:*

- ◆ *Re: Stardust matter predictions*  
◇ From: George Dishman

• *References:*

- ◆ *Stardust matter predictions*  
◇ From: jgreen
- ◆ *Re: Stardust matter predictions*  
◇ From: Mark F.
- ◆ *Re: Stardust matter predictions*  
◇ From: Jonathan Silverlight
- ◆ *Re: Stardust matter predictions*  
◇ From: jgreen
- ◆ *Re: Stardust matter predictions*  
◇ From: Jonathan Silverlight

- Prev by Date: *Re: Liberals powerless to stop Conservatives*

Re: Stardust matter predictions

- Next by Date: ***Re: Milky Way Galaxy is warped and vibrating like a drum (Forwarded)***
- Previous by thread: ***Re: Stardust matter predictions***
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