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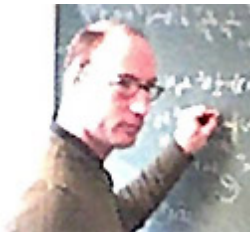
2008 : December 2008 - Fast Breaking Papers : David S. Berman

**FAST BREAKING PAPERS - 2008**

**December 2008**



**David S. Berman talks with ScienceWatch.com and answers a few questions about this month's Fast Breaking Paper in the field of Physics.**



**Article Title: M-theory branes and their interactions**

Authors: Berman, DS  
 Journal: PHYS REP-REV SECT PHYS LETT  
 Volume: 456  
 Issue: 3  
 Page: 89-126  
 Year: JAN 2008

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 \* Univ London, Queen Mary Coll, Dept Phys, London E1 4NS, England.

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**SW: Why do you think your paper is highly cited?**

The paper catches the wave of exciting new developments in M-theory that have taken place over the last year.

**SW: Does it describe a new discovery, methodology, or synthesis of knowledge?**

M-theory is the fundamental description of nature that unifies string theories and allows us to describe string theory when the strings are strongly coupled. The paper reviews the state-of-the-art in our theoretical understanding of how extended objects such as membranes interact in M-theory.

*"There still so much to be done..."*

**SW: Would you summarize the significance of your paper in layman's terms?**

The paper gives an overview of the progress and problems in the deep foundations of M-theory as well as outlining some new ideas for possible progress and new research directions.

**SW: How did you become involved in this research, and were there any problems along the way?**

I have been working almost continually in this field for 13 years and see the questions posed by M-theory as crucial to our understanding of nature. M-theory is about understanding the central questions in physics, such as how to quantize gravity, and, as such, have always been of interest to me.

**SW: Where do you see your research leading in the future?**

There still so much to be done, especially in understanding the "fivebrane" (a five dimensional object predicted by M-theory).

**SW: Do you foresee any social or political implications for your research?**

At the moment none. This is foundational fundamental research.


**Dr. David Berman**  
**Reader in Theoretical Physics**  
**String Theory Group, Department of Physics**  
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Keywords: m-theory, membranes interact, string theory, string theories, physics, how to quantize gravity, fivebrane.



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