

Re: New Paper: Magnetic Monopoles and Duality Symmetry Breaking in Maxwell's Electrodynamics

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Source: <http://sci.tech-archive.net/Archive/sci.physics.relativity/2005-08/msg02504.html>

- *From:* h.poropudas@xxxxxxxxxx
 - *Date:* 30 Aug 2005 08:35:42 -0700
-

YES, you may be in right track !!!

If I remember right I wrote (in Usenet sci-groups) in year 1995 about six light particles (bosons ?) related to eight magnetic monopoles (fermions ?) which were in one H-M's drawing. All these particles were colored with color electricity color in this H-M's drawing.

Good luck for your in hunting these particles,

Hannu

Jay R. Yablon wrote:

- > Hello to all:
- >
- > I wanted to let you know about my new paper just posted at
- > <http://arxiv.org/abs/hep-ph/0508257>, titled Magnetic Monopoles and Duality
- > Symmetry Breaking in Maxwell's Electrodynamics.
- >
- > This paper summarizes the main direction of my research over these past
- > eight months.
- >
- > The abstract is as follows:
- >
- > It is shown how to break the symmetry of a Lagrangian with duality symmetry
- > between electric and magnetic monopoles, so that at low energy, electric
- > monopole interactions continue to be observed but magnetic monopole
- > interactions become very highly suppressed to the point of effectively
- > vanishing. The "zero-charge" problem of source-free electrodynamics is
- > solved by requiring invariance under continuous, local, duality
- > transformations, while local duality symmetry combined with local U(1)_EM
- > gauge symmetry leads naturally and surprisingly to an SU(2)_D duality gauge
- > group.
- >
- > I would be interested in any feedback, public or private, that you may wish
- > to provide.
- >

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> Sincerely,

>

> Jay R. Yablon

> _____

> Jay R. Yablon

> Email: jyablon@xxxxxxxxxxxxx

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• *References:*

◆ *New Paper: Magnetic Monopoles and Duality Symmetry Breaking in Maxwell's Electrodynamics*

◇ *From:* Jay R. Yablon

- Prev by Date: *Re: the 1st law and reference frames*
- Next by Date: *check out my short film, "Solipsist"*
- Previous by thread: **R**