

Spacetime Brout-Englert-Higgs effect in General Relativity interacting with p-brane matter

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(Submitted on 25 Jan 2010)

We review the manifestation of the Brout-Englert-Higgs effect in general relativity interacting with point-like and extended objects (p-branes including string for $p=1$ and membrane for $p=2$), which manifests itself in the appearance of the brane source in the Einstein equation while the graviton remains massless ([hep-th/0112207](#), [hep-th/0507197](#) and refs therein), and discuss briefly its relation and differences with the model for massive spin 2 field proposed recently by G. 'tHooft in [[arXiv:0708.3184](#) [hep-th]].

Comments: LaTeX, jpsconf class, 5 pages. Contribution to the Procs. of the ERE2009 Meeting, Bilbao, September 2009

Subjects: **High Energy Physics - Theory (hep-th)**; General Relativity and Quantum Cosmology (gr-qc)

Cite as: [arXiv:1001.4388v1](#) [hep-th]

Submission history

From: Igor Bandos [[view email](#)]

[v1] Mon, 25 Jan 2010 12:18:34 GMT (19kb)

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