



Compositeness

SEARCHES FOR QUARK AND LEPTON COMPOSITENESS

Revised 2001 by K. Hagiwara (KEK), and K. Hikasa and M. Tanabashi (Tohoku University).

If quarks and leptons are made of constituents, then at the scale of constituent binding energies, there should appear new interactions among quarks and leptons. At energies much below

mainly an explanation of conventions and nomenclature



Compositeness Listings

slow incremental change

9 new results up from approx. 3 new results per year

page count reduced by pruning
superseded results over 10 years old



Listings

	Composite	Technicolor
2006	8.75 pages	0.5 pages
2008	5.5 pages	0.5 pages
2010	5.25 pages	0.5 pages
2012	3.5 pages	0.5 pages

Advisory Committee Recommendations

2006: The leptoquark and compositeness minireviews should be complemented, in a style parallel to the technicolor review, by a survey of experimental results on mass limits etc. For this purpose, the PDG may want to add experimental physicists to the teams writing these reviews.

Advisory Committee Recommendations

reviews of Electroweak, Top, SUSY, Dynamical Electroweak Symmetry Breaking, Extra Dimensions, and Compositeness (especially in models of composite Higgs bosons), should be updated to incorporate the new discovery in a consistent and coherent way

separating composite Higgs from technicolor

Also the section about bounds from compositeness only really refers to bounds on higher dim' quark operators. Now there are bound on Higgs compositeness, maybe there should be consideration to mention this and refer to the bounds in the Higgs review.