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A composite Higgs at high q^2

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Abstract:

If the Higgs is composite, signs of this compositeness should appear via a formfactor-like suppression of Higgs scattering cross sections at momentum transfers above the compositeness scale. We explore this by computing the cross section for e+e- –> ZH in the 5D warped Minimal Composite Higgs model. We find that the cross section is strongly suppressed compared to the Standard Model at energies above the Kaluza-Klein scale due to progressive cancellations among the contributions of the Z-boson KK resonances exchanged in the s-channel.

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