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Composite Weak Bosons and Dark Matter

Abstract

I consider a scenario when the weak bosons are composite particles. The scalar boson, observed at the Large Hadron Collider at 125 GeV, can be interpreted as a p-wave excitation of the neutral weak boson. The mass spectrum of the excited bosons and their decays into weak bosons and photons are discussed. The stable associated fermion provides the dark matter in the universe.

<p>May 19, 2017 - 11:00 am LNGS - "B. Rossi" room</p>
