Theory challenges for LHC physics



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Alternative renormalization group for the standard model

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Two existing approaches to the evolution of the scalar mass are discussed. In particular, their opposite implications for the naturalness problem are pointed out. Next, a possibility of an alternative approach to computing the renormalization group evolution of the standard model parameters is discussed. Within this approach, the naturalness problem may be moved to a high energy scale which may be inaccessible at LHC energies.

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