

Institut Ruđer Bošković
ZAVOD ZA TEORIJSKU FIZIKU
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ZAGREB, HRVATSKA

SEMINAR ZAVODA ZA TEORIJSKU FIZIKU
(Zajednički seminari Zavoda za teorijsku fiziku,
Zavoda za eksperimentalnu fiziku i Zavoda za teorijsku fiziku PMF-a)

Relations derived from minimizing the Higgs field squared (integrated over space-time)

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Sažetak:

Based on a speculative model of complex acton or almost equivalently non-Hermitian Hamiltonian by Ninomiya and myself, going back though to ideas with Don Bennett, it is suggested that the integral over space-time of the Higgs field *squared* should be minimalized. One outcome of such an idea is a fine tuning of the Higgs mass which essentially solves the hierarchy problem. Another is a relation between the suppression of the Higgs field by a neutron say and the particles into which a neutron can decay. They should suppress the Higgs field equally much. Also the knee so called in cosmic ray spectrum is at the Higgs production effective threshold roughly.

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