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Non-commutative approach :pre-and post-dictions

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Connes' noncommutative geometry offers a beautiful way of unifying Einstein's gravity with a tiny class of Yang-Mills-Higgs models. The standard model of electro-weak and strong forces is in this tiny class if some of its parameters meet certain constraints. The pre- and post-dictions resulting from these constraints will be reviewed. Among these, the most striking prediction is certainly the mass of the Higgs boson at 170 +/- 10 GeV. A compilation of all theoretical predictions of the Higgs mass in the literature is also attempted.

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Classification de Session: The Higgs at TeVatron