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Higgspllosion, Higgspersion and Naturalness

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Higgspllosion is a dynamical mechanism that introduces an exponential suppression of quantum fluctuations beyond the Higgspllosion energy scale and further guarantees perturbative unitarity in multi-Higgs production processes. I will review the calculations that indicate a factorial growth of the $h^* \rightarrow n h$ transition amplitude and will outline how such a growth leads to an exponential suppression of large particle virtualities. If realised in nature, Higgspllosion has astonishing consequences for the consistency of the Standard Model. I will discuss these consequences and will present phenomenological implications that could potentially lead to observation of Higgspllosion in future experiments.

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