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An Introduction to Higgspllosion

Thursday, 11 January 2018 13:50 (20 minutes)

What is Higgspllosion? Why should you care? By adding literally nothing to the SM it can be argued that there is some physical minimum resolvable scale. Beyond this scale, particles 'Higgsplode' into a large number of soft quanta. This has interesting implications for the UV behaviour of the theory.

My talk will be in three parts:

1. What is it?
2. Effect on RG running in ϕ^4 theory [1709.08655]
3. Possibility of Higgsploding dark matter

What would be the preferred length of your talk?

20 minutes + questions

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