

# The Z-Penguin in Generic Extensions of the Standard Model

*Thursday 18 April 2019 10:15 (25 minutes)*

The Z-Penguin is generated at one-loop level in the Standard Model and its renormalisation requires cancellations between involving triple gauge triple gauge couplings and fermion gauge couplings. In this talk I will discuss how the renormalisation can be extended to generic extensions of the Standard Model using models that fulfil perturbative unitarity constraints or, equivalently, models that emerge from spontaneously broken gauge theories.

**Author:** GORBAHN, Martin (Liverpool University)

**Presenter:** GORBAHN, Martin (Liverpool University)

**Session Classification:** BSM

**Track Classification:** BSM