

## The W mass and beyond (30' talk + 15' discussion)

*Thursday 20 April 2023 16:00 (45 minutes)*

In this talk I consider the  $W$  mass, assuming that a measured value different from the SM prediction is due to BSM physics, within the bigger picture of signs for new physics (anomalies). In particular, a positive shift in the  $W$  mass can be obtained with leptoquarks, vector-like quarks,  $Z'$  bosons and a scalar triplet ( $Y=0$ ). I discuss which anomalies can be explained by these particles as well and to which interesting experimental signals these SM extensions lead.

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