



UNIWERSYTET SZCZECIŃSKI
INSTYTUT FIZYKI

Środowe seminarium w Instytucie Fizyki

April 6th – 12:00

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“Cosmological Selection of the Weak Scale”

I will discuss a new joint solution to the electroweak hierarchy problem and the strong-CP problem [2106.04591], with correlated signals in future hadronic EDM experiments and searches for dark matter. In the second half of the talk, using the previous mechanism as an example, I will identify the general features of cosmological selection of the weak scale. In particular I will introduce the concept of “weak scale trigger” [2012.04652] and its phenomenology. Triggers are common to the vast majority of mechanisms that explain the weak scale cosmologically. They give us the opportunity to test this general idea experimentally.