

# International Conference on Precision Physics and Fundamental Physical Constants (FFK-2019)



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## Superweak force

*Tuesday 11 June 2019 14:30 (30 minutes)*

We summarize the current status of particle physics, collecting the established deviations from the standard model of particle interactions both at the energy and the intensity frontier as well as in cosmology. We propose a specific  $U(1)$  extension of the standard model of particle interactions and discuss the possible consequences of the model concerning the observed deviations. We present ways to constrain the parameter space of the model partially.

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**Session Classification:** Session 5: Beyond the Standard Model