**HECA Seminar**

(High Energy, Cosmology and Astro-particle physics)

[HECA web-page](http://heca.vlbsm.pl)

Tuesday 30.03.2021, h 11:15

join at
[https://](https://meet.google.com/yep-wowi-vhi)[meet.google.com/cgk-onvf-iuk](http://meet.google.com/cgk-onvf-iuk)

### Susanne Westhoff

### Heidelberg University

## The Flavor of UV Physics

Abstract

New physics not far above the TeV scale should leave a pattern of virtual effects in observables at lower energies. What do these effects tell us about the structure of a UV theory? We will address this question by considering the Standard Model as an Effective Field Theory, which allows us to relate physics at different energy scales through the renormalization group. I will show how to deduce possible features of a UV theory by combining top-quark observables at the LHC with bottom observables at the flavor factories.

Best regards,

Andrzej Hryczuk

Kamila Kowalska

Kazuki Sakurai

Enrico Maria Sessolo

Krzysztof Turzyński