Contribution ID: **26** Type: **not specified**

Semileptonic charm decays in the Weak Effective Theory

Wednesday 19 June 2024 17:00 (20 minutes)

The available data on exclusive $c \to s\ell\nu$ decays is analysed for three main purposes. First, a study of the relevant hadronic matrix elements is performed using dispersive bounds, resulting in theoretical predictions of observables which can be confronted with experimental results. Then, a combined Bayesian analysis of the experimental data is done for the extraction of the CKM element V_{cs} in the SM. Lastly, these decays are fitted in the Weak Effective Theory such that we can compare the favourability between SM and BSM dynamics and provide the resulting phase space for the WET coefficients.

Primary author: BOLOGNANI, Carolina (Maastricht University/Nikhef)

Presenter: BOLOGNANI, Carolina (Maastricht University/Nikhef)

Session Classification: Day 2