

---

Volodymyr Biloshytskyi

---

**Hadronic contributions to light-by-light scattering and the anomalous magnetic moment of the muon**

19 July 2019

2:15 pm

Minkowski room

---

---

**Abstract**

Forthcoming precise experiments on the muonic anomalous magnetic moment measurements are the strong motivation to increase the accuracy of recent theoretical estimations. Application of model-independent methods based on the sum rules provides new intriguing perspectives. In this talk, I present estimations of contribution of the neutral pseudoscalar meson to one of the electromagnetic channels of hadronic light-by-light(LbL) contribution via Schwinger sum rule. Also the intriguing ansatz for sum rules in the real LbL scattering process will be considered. In the tree-level, it allows expressing one of the three spiral amplitudes directly through the corresponding photo-fusion observables.

---