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Type: **Invited Talk**

## Proton structure in and out of muonic hydrogen

*Thursday, 3 August 2023 14:30 (25 minutes)*

In this talk, I would like to discuss the theory of light muonic atoms in view of upcoming experiments, e.g., the measurement of the muonic-hydrogen ground-state hyperfine splitting with ppm accuracy. A particular focus will be on predictions of the two-photon-exchange corrections in muonic hydrogen and deuterium. Furthermore, I would like to discuss the hadronic-vacuum-polarization corrections to the hyperfine splitting.

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