

THE PHYSICS COLLOQUIUM

Thursday 3 October 2024, 4:00 p.m.
Nijenborgh 4, Lecture Hall 5111.0022

The hyperfine anomaly: adventures at the interface of atomic, nuclear, and particle physics

Ass. Prof. Jacinda Ginges

The University of Queensland, Australia

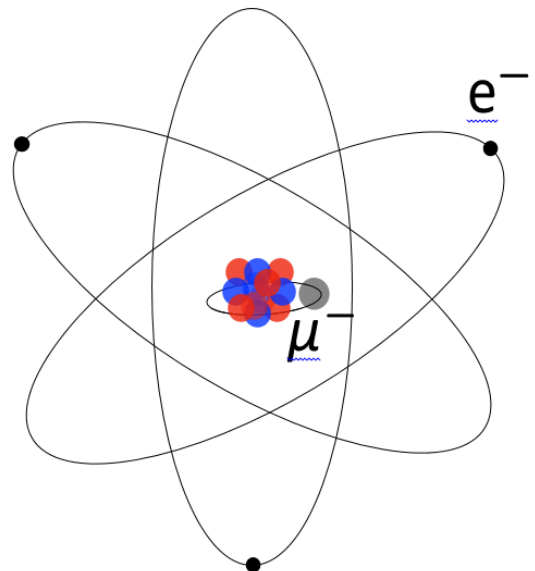


In this talk, I will discuss some of our recent adventures exploring the magnetic hyperfine anomaly — the effect of the finite distribution of the nuclear magnetic moment on the hyperfine structure.

I will motivate our interest in this effect: as a problem to be removed to further enable precision searches for new physics in atoms and molecules; and as an object to be

reckoned with and studied, towards improving the understanding of nuclear structure and models.

This journey has taken us from many-electron, to hydrogen-like, and to muonic systems.



Join us for coffee starting 3:30 p.m. Refreshments will be served after the lecture.

For more information contact the host: Anastasia Borschevsky (a.borschevsky@rug.nl)

Website: <http://www.rug.nl/research/vsi/colloquia/>