

## The 59th Winter Nuclear & Particle Physics Conference (WNPPC2022)



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# Numerical Description of High Energy Electrons Propagating in a Coulomb Field

*Friday, 18 February 2022 09:00 (12 minutes)*

The goal of our project is to determine the radiation of photons emitted in a nuclear beta decay including the effect of the interaction with the parent nucleus. In this talk, I will explain in an accessible way Schwinger's proper-time method and illustrate how it determines the electron's Green Function. As one application, I will describe the electron's anomalous magnetic moment ( $g-2$ ).

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### **Please select: Experiment or Theory**

Theory

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**Session Classification:** Instrumentation