

Seminar

Prof. Jan Dereziński

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My observations on how physicists use QED

Wednesday, June 17, 2015

at 13:30 h

ESI, Boltzmann Lecture Hall

Abstract: I will start with a short story, hopefully entertaining. Then I will discuss the general philosophy of precision computations of Lamb shifts using QED, based in particular on the works of Shabaev and Pachucki. I will explain two kinds of effective Hamiltonians. Then I will discuss the formalism of time-ordered and 2-times Green's functions. Finally, if there is still time, I will say about the structure of QED and possible perturbative approaches, which are relevant for the bound state computations.

L. Erdoes, R. Seiringer, S. Warzel

June 10, 2015