I n v i t a t i o n

to the seminar of Division of Elementary Particle Physics of the Institute of Physics of the Czech Academy of Sciences

Dr. Renann Lipinski Jusinskas

Institute of Physics
of the Czech Academy of Sciences

Classical equations of motion and scattering amplitudes

Abstract: In this introductory seminar I will present a simple recursive method for computing tree level scattering amplitudes in field theory. The method is solely based on classical equations of motion, without any input from Feynman diagrams. I will present a series of examples involving the scattering of scalars, gluons, and gravitons. Finally, I will discuss some work in progress on how this construction generalizes in two ways. The first concerns curved backgrounds, in particular (Anti) de Sitter spaces. The second generalization is about a recursive recipe for computing loop amplitudes.

Seminar will take place on **Thursday, May 12, 2022 at 2PM** in the conference hall in the building of the Institute of Physics, Na Slovance 2, Prague 8 on the ground floor. For more info, please see https://indico.fzu.cz/event/111/

Roman Lysák   Jiří Hejbal