



FZU

Institute of Physics
of the Czech
Academy of Sciences

Invitation

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



Prof. Jiří Chýla

Institute of Physics
of the Czech Academy of Sciences

50 years of discoveries of neutral currents and asymptotic freedom

Abstract: The year 1973 brought two major discoveries, one experimental and one theoretical, which set the stage for the formulation of Standard Model and lead to further discoveries confirming the basic ideas on which it is based - quarks and leptons as fundamental particles interacting via intermediate vector bosons - and culminating with Higgs boson discovery in 2012. While the discovery of neutral currents was to some extent expected, the discovery of asymptotic freedom of nonabelian gauge theories came as complete surprise to all theorists. I will recall both discoveries, but focus on the second as it brings important lesson for current situation in particle physics.

When: Thursday, October 12, 2023 at 2PM

Where: Main conference hall, Institute of Physics, Na Slovance 2, Prague 8

For more information, please see <https://indico.fzu.cz/event/143/>