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Presentation "Spontaneous symmetry breaking and Goldstone Theorem"

Wednesday 22 May 2024 15:30 (30 minutes)

Abstract: "We discuss the concept of spontaneous symmetry breaking and illustrate it with a general example. We consider Wigner-Weyl and Nambu-Goldstone realisations of symmetry in the quantum theory. Next, we state Goldstone's theorem and sketch its proof. We discuss why quantum chromodynamics is not realised in the Wigner-Weyl mode. We also consider different order parameters of spontaneous chiral symmetry breaking."

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