



物理学特別講義 (発展) 第三十二
(Advanced) Special Lectures in Physics XXXII

「Structure of hadron resonances」

講師 兵藤 哲雄 氏 (Prof. Tetsuo Hyodo)
東京都立大学 准教授 (Tokyo Metropolitan University)

日程 (Schedule):

10/5 (Monday), 12 (Monday), 19 (Monday), 26 (Monday)

10:40-12:20、14:20-16:00

* 最終回はセミナー形式

場所 (place): Zoom によるオンライン講義 (online lecture via Zoom)

<講義概要, Abstract>

Resonance phenomena commonly appear in various fields in physics. In particular, most of hadronic particles should be treated as resonances, because they are unstable against the strong decay. These lectures introduce the basic concepts of resonance physics. We then discuss the techniques to study the structure of resonances, aiming at the applications in hadron physics. The topics include: resonances in quantum mechanics, resonances in scattering theory, theory of Feshbach resonances, effective field theories, and compositeness of resonances.