

NSYSU

physics 書報討論 Weekly Seminar

Single crystal growth at TCECM

呂欽山 Chin Shan Lue

Department of Physics, National Cheng Kung University, Taiwan
URL: <https://www.phys.ncku.edu.tw/en/committees-detail/48/>

14:10-15:00 Thu-12/Dec/2024, at PH2006

URL QR



Abstract

In this talk, I will introduce to my crystal growth laboratory at National Cheng Kung University (NCKU), and Taiwan Consortium of Emergent Crystalline Materials (TCECM) operated by National Science and Technology Council (NSTC). Thus far, we have synthesized more than one hundred kinds of single crystalline bulk materials by using the flux growth, chemical vapor transport, and Bridgman methods. These crystals cover a wide range of material systems including novel superconductors, charge-density-wave compounds, emergent topological materials, layered magnetic systems, and multifunctional 2D materials. I will also discuss various investigations of these crystals via domestic and international collaborations.