March Meeting on Room-Temperature Superconductivity

March 25(Fri.), 2022

10:00 (KST)

VENUE

Online (ZOOM)

ORGANIZERS

Chul-Hong Park (Pusan Nat'l Univ.)
Duck Young Kim (HPSTAR)
Han-Yong Choi (Sungkyunkwan Univ.)
Jae-Yong Kim (Hanyang Univ.)
Jee-Hoon Kim (POSTECH)
Ji Hoon Shim (POSTECH)
Jun-Hyung Cho (Hanyang Univ.)
Jung Seek Hwang (Sungkyunkwan Univ.)
Kee Hoon Kim (Seoul Nat'l Univ.)
Kwan-Woo Lee (Korea Univ.)
Tuson Park (Sungkyunkwan Univ.)
Younjung Cho (Kyungpook Nat'l Univ.)

SPEAKER

Katsuya Shimizu (Osaka Univ.)

TITLE

Observation of High-Temperature Superconductivity in Hydrogen-Rich Compounds and its Experimental Background

ABSTRACT

Synthesis of RTS, room-temperature superconductor (superconducting at temperature higher than room temperature) is one of the goals of material science and technology. "Pressure" is a powerful tools for the study the superconductor to improve the superconducting property, and to synthesis of superconductors. Recentry the superconductivity exceeding 200 K was reported in the hydrogen-rich compounds. We have performed the synthesis of the compounds from metals and elemental hydrogen H2 or hydrogen source by laser heating at high pressure, and the crystal structure analysis by using the synchrotron x-ray in SPring-8. The resent experimental investigations for synthesis and observation of pressure-induced superconductivity will be reviewed.

ZOOM MEETING ID

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