Positron Diffraction Technique Reveals an Interface Structure between Graphene and Metal Substrates
— Elements in Substrate Change the Bonding Character of Graphene —


Recently, two-dimensional atomic sheets such as silicene (the Si version of graphene) and germanene (the Ge version), which do not exist in nature, have been successfully fabricated on various substrates. Furthermore, atomic sheets of superconductors on insulator substrates give rise to high-temperature superconductivity. In the near future, we will investigate such novel atomic sheets and the interface with the substrate using the TRHEPD method.

This work has been conducted in collaboration with the High Energy Accelerator Research Organization (KEK).