Contribution ID: **25** Type: **not specified**

Femtosecond pulsed laser deposition of BSCCO target on silicon substrate

We deposit films from a bulk Bi-2212 target via femtosecond pulsed laser deposition. Smooth as-deposited films with large substrate coverage were grown on Si (100). The annealed films reveal crystallization in more than one direction. The XRD spectrum confirms that the annealed film is polycrystalline with some peaks that may have come from dissociated BSCCO compounds. Further testing will be carried out for this preliminary study on the deposition of epitaxial high-temperature superconducting films.

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Track Classification: School