Contribution ID: 41 Type: Paper

SURVEY OF THE SUPERKEKB MAIN RING AFTER THE GREAT EAST JAPAN EARTHQUAKE

Tuesday, 11 September 2012 09:05 (25 minutes)

A survey for SuperKEKB of the KEKB main ring magnets and monuments was carried using laser trackers and total stations after the Great East Japan Earthquake. The damage from the earthquake was concentrated at the thermal expansion joints of the tunnel. Some magnets moved by more than 5 mm, and the 3 km circumference of the accelerator tunnel seems to have lengthened by several millimeters. Examples of damage to the KEKB main ring will be shown.

These survey results are compared with a GPS network that was newly installed after the earthquake. The effects of the Great East Japan Earthquake on the tunnel and the survey network will be reported, along with the realignment strategy for the on-going project, SuperKEKB.

Primary author: Dr MASUZAWA, Mika (KEK)

Co-authors: Dr IINUMA, Hiromi (KEK); Dr MISHIMA, Kenji (PASCO corp.); Mr ABE, Naohiro (PASCO corp.); Dr SUGAHARA, Ryuhei (KEK); Mr ARIYAMA, Takashi (PASCO corp.); Mr KAWAMOTO, Takashi (KEK); Mr OHSAWA, Yasunobu (KEK)

Presenter: Dr MASUZAWA, Mika (KEK)

Session Classification: Other Geodetic and Survey Topics

Track Classification: Other Geodetic and Survey Topics