

Studies of Adhesives for HL-LHC Tracking Detectors

Wednesday, July 2, 2014 9:45 AM (30 minutes)

The quest for low mass tracking systems for the next generation of experiments at the LHC requires extensive use of low density polymeric materials. Such materials take the form of plastics, resins in CFRP and adhesives. In this paper we attempt to summarise the results of experimental investigations into such materials within the context of developments for the LHC and other similar activities. Initial results of a new flexible detector epoxy developed at STFC-RAL will be presented, including post irradiation studies. Finally we present the current status of our attempts to document these results in a database with the intention of making these data available throughout the community.

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