

Low Temperature Brazing Technique for the Accelerators, H. MATSUMOTO, T. SHINTAKE, N. AKASAKA, KEK, National Laboratory for High Energy Physics; K. WATANABE, Tohoku Univ.; T. NABA, O. TAKEDA, K. SATO, Toshiba Co. Keihin Product Operations - An alignment accuracy of the accelerator structure is very important to reduce the wake field in the structure especially the big scale of linear colliders. So far, the accelerator structures are using the BAg-8 brazing material which is necessary the brazing temperature around 800 degree-C. Therefore, it is very difficult to keep the high accuracy with a few micro-meters after the brazing process. A low temperature brazing method has been proposed to obtain the high alignment accuracy. Sn (Tin) alloys are one of the typical material which have brazing temperature range from 140 to 724 degree-C which are widely using for the semiconductor field since many years ago. Further, they are able to use in low pressure of vacuum such as blow 10^{-6} Pa. This paper will describe the possibility to apply the fabrication of accelerator structures