In this work, 16-bit A/D-converters were used for processing the I- and Q-signals of TAITS, which limit the sensitivity of FMZI for measuring phase difference. The A/D-converter limited phase sensitivity is ~3.1 x 10^{-5} rad. and the corresponding tilt is ~1.5 x 10^{-4} μrad. It should be mentioned that, as shown in Fig. 8, noise levels for tilt measurements, especially for yaw measurements, at some frequencies above 10Hz are much lower than the A/D-converter limited resolution because the corresponding noises at these frequencies of FMZI are much smaller than the quantization level for the A/D-converters. Although tilt measurement results below the A/D-converter limit do not represent actual motions of the target mirror, we can have useful information about the motions mirror qualitatively.