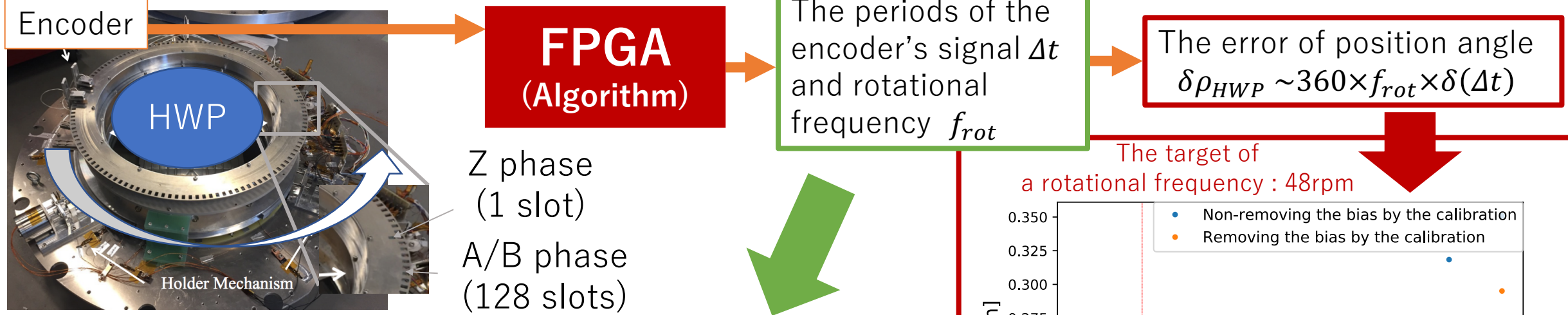
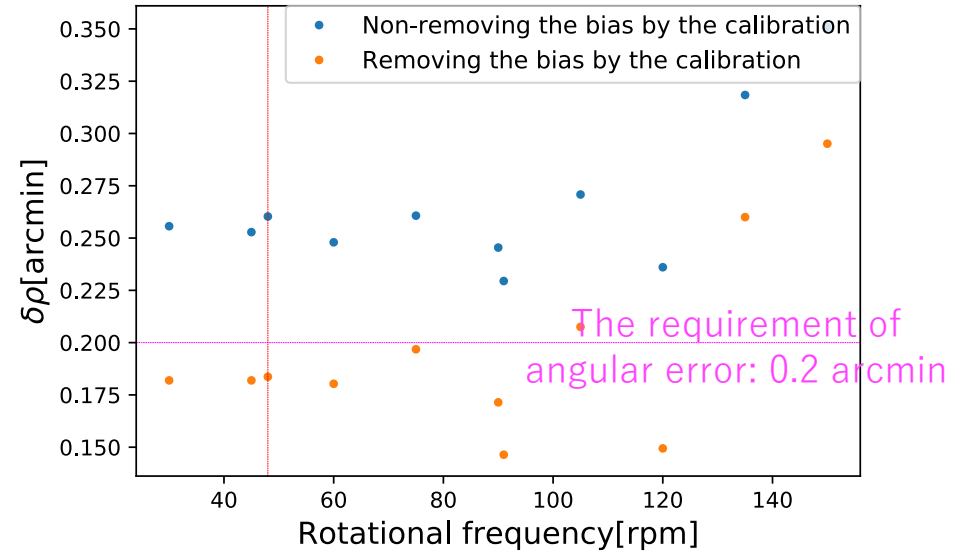
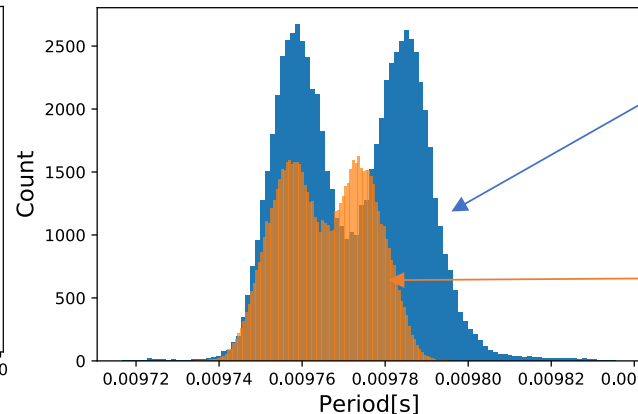
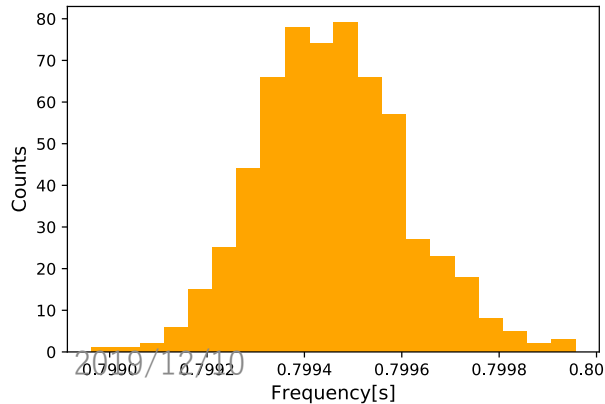


# Development of the prototype onboard FPGA to reconstruct the position angle of the LiteBIRD PMU HWP using optical encoder

In LiteBIRD, the leakage of E-mode is dependent on the angular error of the continuous rotational Half-Wave Plate (HWP).



The figures below show the rotational frequency and periods of A/B phase when the rotational frequency is 48rpm.



The above figure shows the rotational frequency vs the angular error. The results show there is not the strong dependence in this relation.