

Photonic Band Gap Accelerating Structures Progress Report

4Q FY19

The PI carefully looked at the data on wakefield acceleration in the PBG structure and concluded that although the acceleration in the structure is clearly seen from the data, computing the exact values for accelerating gradients is difficult due to significant beam jitter at AWA. The AWA team responded that the operation of the facility is now improved and the beam jitter is significantly reduced. They propose to repeat the experiment in CY2020. The repeat experiment is under consideration.