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Status and Plans for the C3 Quarter Cryomodule

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To achieve target performance of the C3 accelerator, many elements will need to be manufactured, assembled, and aligned in use to very tight tolerances. Testing of accelerating structure manufacturing, alignment, mounting, and liquid nitrogen cooling will be performed at SLAC using an accelerator length of approximately 2 meters. This talk will review progress and plans toward commissioning a Quarter Cryo-Module “QCM” test system including the design of a 1 meter length of accelerating structure and the support and alignment system required for test. This system review will include details of the vacuum insulated cryostat sized to allow testing 2 sections of 1m long accelerating structure with quad and BPM supported on a frame representative of a system that could be used in the C3 target cryo-module containing 8 meters of accelerating structure. It is intended that the QCM system will be used to evaluate a series of accelerating structures, supports, and measurements techniques. Some of the initial plans will be reviewed in this talk.

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