

Alignment strategy of the SSR1 cryomodule for the PIP-II project at Fermilab

Wednesday, 22 March 2017 08:30 (25 minutes)

Fermilab is planning to enhance the capabilities of the existing accelerator complex to support the delivery of 1.2 MW beam power for a world-leading neutrino program over the next several decades. The heart of the Proton Improvement Plan-II (PIP-II) is an 800-MeV superconducting linear accelerator which includes five types of superconducting cavities, grouped in 25 cryomodules, to cover the entire velocity range required for acceleration of protons. We are currently assembling the first prototype cryomodule of spoke cavities (SSR1) and this talk focuses on the strategy that will be adopted to align the key-components with the required precision to reduce the beam loss.

Primary author: Dr PASSARELLI, Donato (FNAL)

Presenter: Dr PASSARELLI, Donato (FNAL)

Session Classification: Microwave Technology