

Eighth CW and High Average Power RF Workshop



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Type: **Oral presentation**

Precision manufacturing considerations of 200 MHz LINAC amplifier

Tuesday, 13 May 2014 14:30 (30 minutes)

Tubes remain the most effective solution for 200 MHz Final Power Amplifier (FPA) design. An overview of design and manufacturing considerations of a 201.25 MHz FPA, built to Los Alamos Neutron Science Center (LANCE) specifications, will be presented. Precision manufacturing and assembly of amplifier components is critical for optimizing performance of advanced tube design, such as the Thales TH628 Diacrode®. Topics to be presented include an update on system performance at LANCE of their newly designed and manufactured Diacrode Amplifiers, the importance of select raw materials used in manufacturing, and special devices required for heating, component assembly and alignment. Additional system components required such as High Voltage Power Supplies and liquid and air cooling of components will also be presented.

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Track Classification: SPC judgements