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Study on Fabrication of 650MHz 5cell Waveguide HOM SRF Cavities

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A 650MHz 5cell waveguide HOM Cavity was fabricated at IHEP. Due to the waveguide structure, the cavity will be a good candidate for high HOM power machines. In this paper, we will report progress of the cavity fabrication, and preparation for post-treatment and vertical test. Lessons we learnt during process will also be discussed. Some new fabrication procedures will also be presented.

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