

## Update on HOM studies for PIP-II SC linac

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Proton Improvement Plan II (PIP-II) is currently being implemented at Fermilab. Main part of PIP-II is RF linac composed of 5 types of superconducting RF cavities, optimized for acceleration of H<sup>-</sup> ions in the velocity range from 0.1 to 0.9 of speed of light. Through study of high order modes in PIP-II linac had been performed for 2 mA continuous wave operation mode and presented on previous HOMSC workshops. In this paper we update HOM studies in PIP-II linac. We take into account modifications of cavity design and consider pulsed mode of linac operation, as well as high current (up to 10 mA) regime.

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