Contribution ID: **56** Type: **Oral**

Front End Limitations for High Power, High Intensity Operation in Proton Linacs

The demand for high power, high intensity and high reliability proton linacs has been driven by a variety of applications from spallation sources to ADSRs. Several machines have recently been commissioned or are currently being designed and built worldwide. Historically, to golden rule of thumb to avoid activation has been to limit the losses to 1W/m. However, the growing requirements for the next generation of proton linacs will make this criterion hard to meet. In this paper, we will discuss essential aspects of the front end design that have to be addressed in modern linacs intended for high power and high reliability operation.

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