

# High-Gradient SRF Research at DESY

*Tuesday 18 August 2009 14:00 (1 minute)*

## Please give a brief summary of your poster

Gradients exceeding 40MV/m have been multiply demonstrated in 9-cell SRF cavities that are foreseen for the International Linear Collider. The mass production of such cavities however remains a challenge. A new, in situ method for optical inspection, developed at KEK/Kyoto University allows to correlate surface features with e.g. quench locations. This and other tools are presented that enable a systematic approach to understanding the gradient limiting features in SRF cavities. Results from the large sample investigated at DESY are shown.

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