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The dynamics of metal surfaces under high fields

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The CLIC study has successfully developed X-band accelerating structure prototypes that reliably operate at an accelerating gradient above 100 MV/m. An important contribution to the development has been a study of the dynamics of metal surfaces under high electromagnetic fields. This multidisciplinary study has resulted in a number of important insights into the fundamental limitations of gradient in metal structures. The program and selected results are reviewed.

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