

# 「小型加速器による小型高輝度X線源と イメージング基盤技術開発」

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# IPAC15の発表より

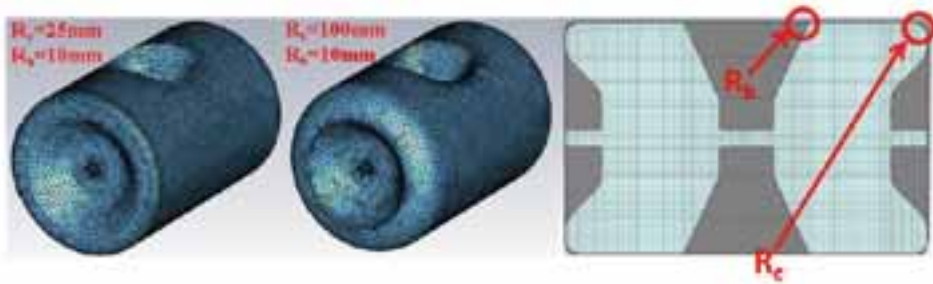


Figure 1: Examples of optimized cavity geometries. Both have optimized geometry and similar RF characteristics, but a detailed design (i.e., a corner radius of the end-plate in this example) is different from each other.

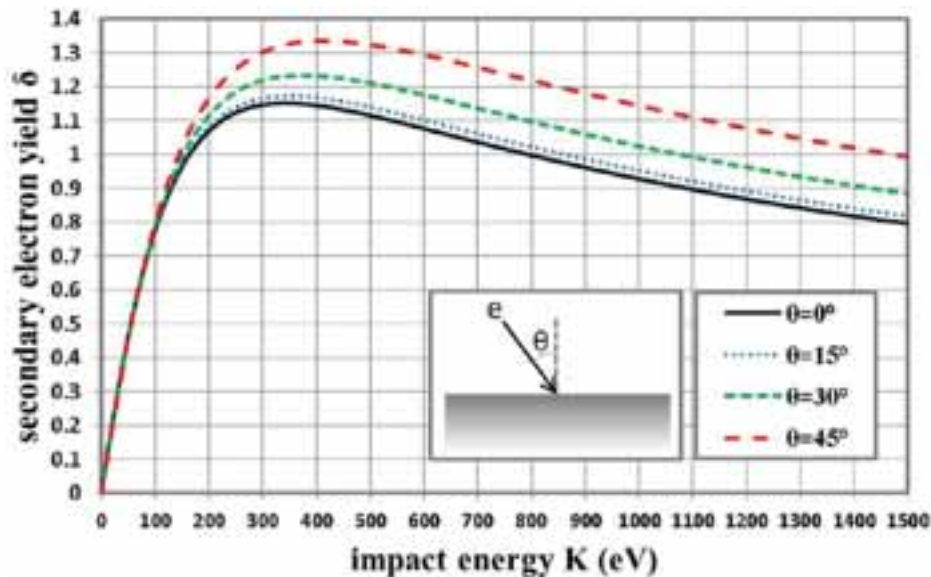


Figure 2: Furman model SEY as functions of impact energy. Each curve corresponds to an impact angle.

# MULTIPACTOR SIMULATIONS IN 325MHZ SUPERCONDUCTING SPOKE CAVITY FOR AN ELECTRON ACCELERATOR

WE PMA 0 5 3

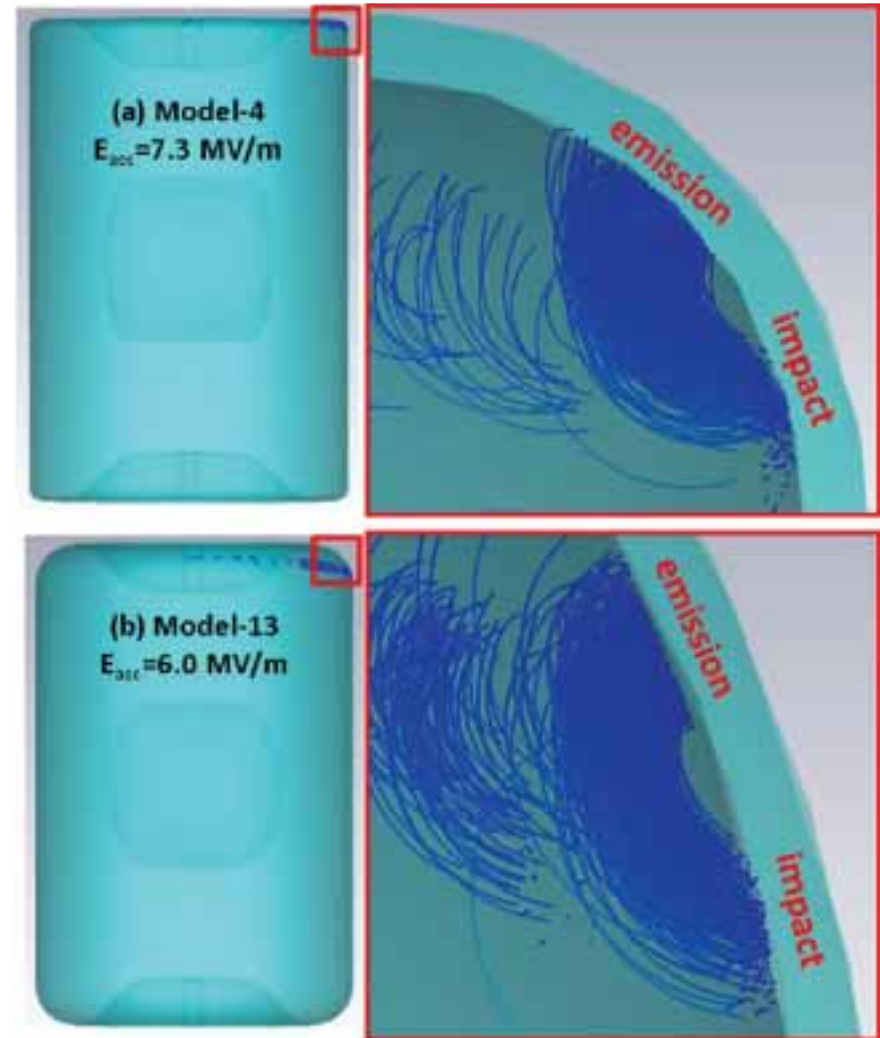


Figure 3: Examples of MP electron trajectories on end-plate corners.

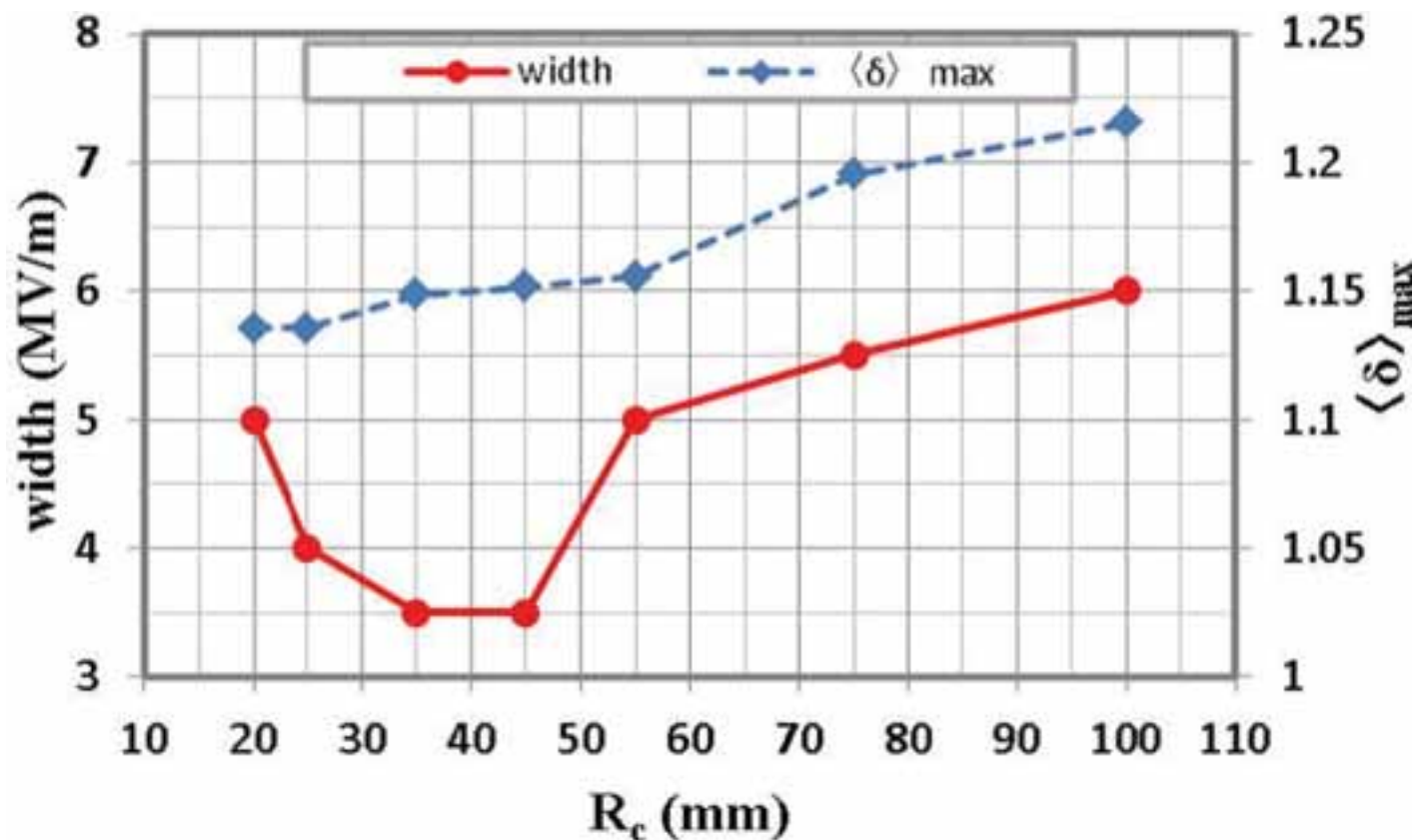
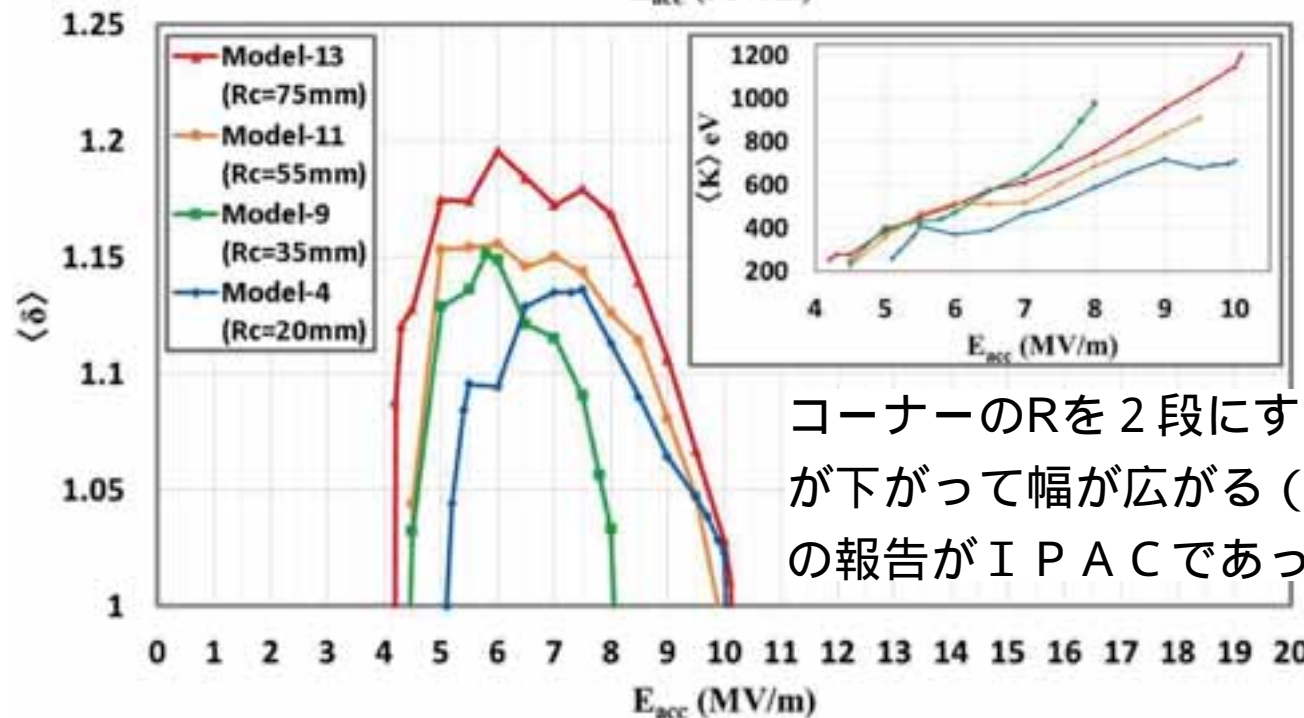
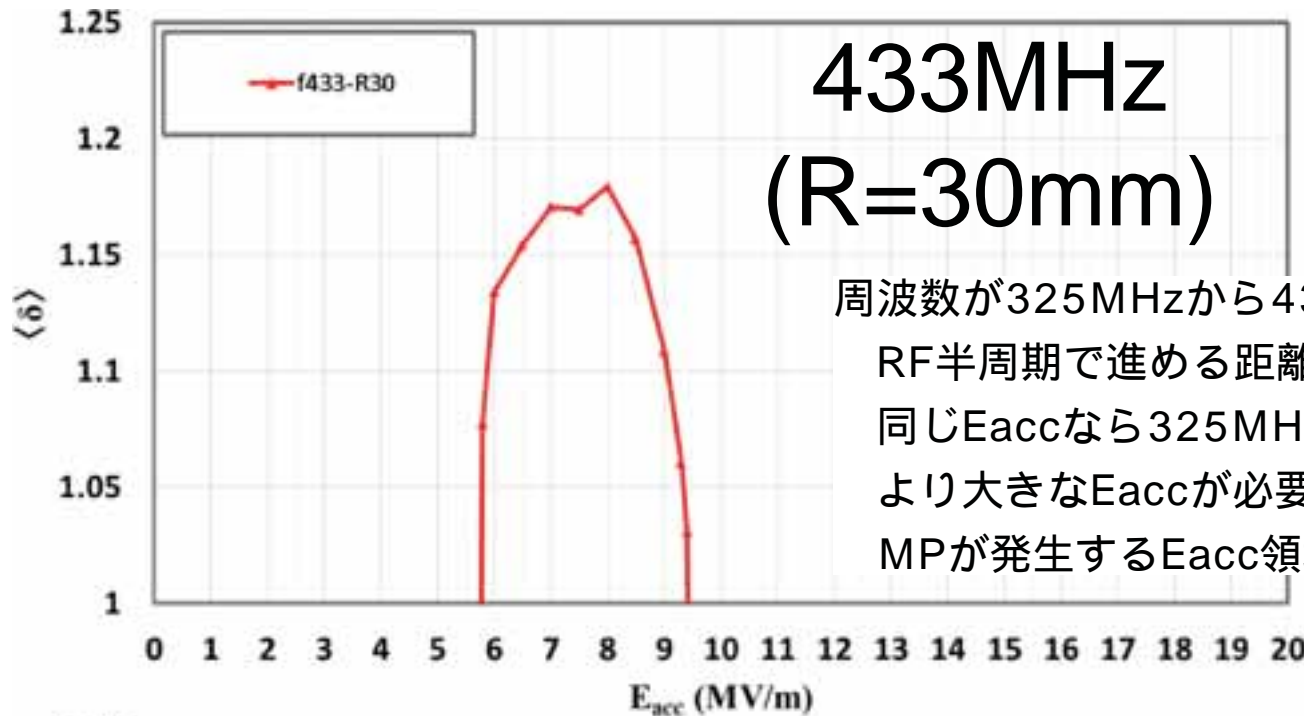


Figure 5: Width of range of  $E_{\text{acc}}$  inducing MP and the maximum value of  $\langle \delta \rangle$  as functions of the corner radius of the end-plate,  $R_c$ , for the case that MP occurs near the end-plate corner.

2015.5.11 久保

$30 \times 433 / 325$   
=40mm相当

# 433MHz (R=30mm)



# 325MHz (Fig.4)