

Abstract Submitted
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Realistic Models for RF Cavities¹ DAN ABELL, ILYA POGORELOV,
PETER STOLTZ, Tech-X Corp. — We present realistic models, including fringes,
for several standing-wave modes in rf cavities. These models include a simple accel-
erating mode and a TM-110 (crab) mode. They are useful for the accurate compu-
tation of transfer maps² as well as for constructing model fields that can be used for
testing and comparing a variety of rf cavity codes.

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²D.T. Abell, “Numerical computation of high-order transfer maps for rf cavities”,
Phys. Rev. ST Accel. Beams **9**, 052001, (2006).

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