

Mammography standard for dosimetry

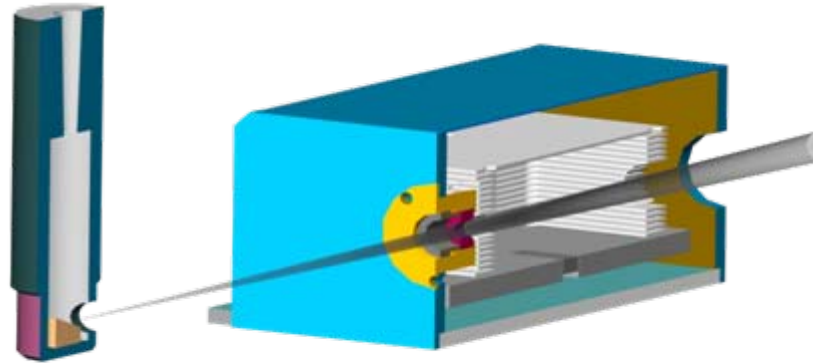
C. Kessler, P. Roger, D.T. Burns



Session E

Ionization chambers; low- and medium-energies

Mammography dosimetry at the BIPM



- install an x-ray tube with molybdenum anode to establish reference mammography qualities for comparisons and calibrations
- construct a new standard as a permanent facility for these beams

Design and construction of a new standard

- the new primary standard is a parallel-plate free-air chamber, designed to be used up to 50 kV and to minimize the correction factors that enter in the K_{air} determination
- calculation of the correction factors using Monte Carlo techniques (Penelope code)
- direct comparison with the BIPM FAC standard; preliminary measurements are presented

