



SCMPCR

South Asia Centre for Medical
Physics and Cancer Research

SCMPCR

Newsletter

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QUALITY EDUCATION AND HEALTH SCIENCE FOR PATIENT BENEFIT

Quiz & Solution



Solve it!!

SCMPCR Newsletter is carry a new column – SOLVE IT! – featuring a relatively difficult question / interesting problem for the young medical physics students and young medical physicists to solve. Those who are interested can send their answers to sptgnadar@gmail.com . The best answer would get published in the next issue of the Newsletter along with the name and affiliation of the contributor.

In a conventional C-arm linac which has a maximum field size of 40 cm x 40 cm, the corners of fields larger than a certain size are clipped. See the picture below of a 40 cm x 40 cm field. The corners of the field are clipped.



Questions:

- 1) Which is/are the component(s) in the linac head responsible for the clipping of the radiation field corners?
- 2) What is the *largest possible square field size* that can be obtained without its *corners clipped*? Explain your answer using the linac head geometry.