

Invited Talk

IMPORTANCE OF THORON (^{220}Rn) IN RADON (^{222}Rn) STUDIES

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Radon (^{222}Rn) is internationally noted as the second cause of lung cancer. Thus many countries are about to solve the problem worldwide. Since recent studies have revealed that a new evidence of lung cancer risk is found out with a low level below 200 Bq m^{-3} , the reference level will have to be set lower than before. The ICRP will revise the dose conversion factor based on such scientific findings. Therefore, importance of radon exposure has been further recognized and accurate radon concentrations will be required. Recently thoron (^{220}Rn) has also been recognized from the viewpoint of accurate radon measurements. In addition, exposure from thoron decay products will have to be considered in the near future. The present study summarizes the followings [1-10]:

1. QA/QC (NIRS radon and thoron chambers, intercomparison)
2. Measurement techniques for thoron and its decay products
3. Field data and dose assessment
4. Other research topics in our research team

Ref.

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