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Analysis of Atmospheric Concentrations of Radon and Thoron Using Beta Counting Technique

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**Abstract:** This paper presents a detailed theory and experimental procedure for measurement and analysis of mixed radon and thoron in the environment. The technique has been successfully applied to the study of seasonal variations of radon and thoron in the atmosphere around Rajshahi, Banladesh, during the years 1989-1991. The maximum radon concentration in outdoor air was observed in the winter from December to January while the indoor radon concentration was found to be maximum during the monsoon months of July and August. The implication of the results is briefly discussed in the paper.

**Key Words:** radon; thoron; radon progeny; secular equilibrium; radon concentration; seasonal variation

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