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Measurement of trace radioactivity with Neutron Activation Analysis

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The need to test all kinds of materials for unprecedented levels of radioactivity is a common problem for many low rate, low energy experiments. This problem can be approached by counting decays or decaying atoms. When focusing on natural radioactivity, the latter approach, in form of mass spectrometry or neutron activation analysis (NAA), often offers the best sensitivity. In my presentation I will discuss NAA work at the University of Alabama, focused on measurements supporting the development of the nEXO project. Novel ideas will be covered.

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Session Classification: Low Background Assay Techniques