

EFFECTIVE RESONANCE ENERGY \bar{E}_r - ITS ROLE IN RNAA AND ENAA AND SOME METHODS
FOR EXPERIMENTAL DETERMINATION

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SUMMARY

The effective resonance energy (\bar{E}_r) is a new parameter in reactor neutron activation analysis (RNAA) and americium neutron activation analysis (ENAA). When applying comparator or absolute standardization methods, \bar{E}_r should be introduced to correct the analysis result for errors induced by a non-ideal epithermal flux distribution in the irradiation site. \bar{E}_r can be calculated from literature neutron resonance data, but when the latter are not or not accurately known, experimental determination should be considered. Two recently developed experimental methods, together with some results obtained, are presented in this paper.

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