Low Energy Accelerator Calibration Using EBS Resonances

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Abstract. The EBS resonance shape function has been written out and their use in low energy accelerator calibration was discussed. It was shown that the shape of EBS resonances, despite their inherent dependence upon the scattering angle, is described well by the generalized Breit-Wigner formula. The resonance parameters are obtained by fitting of the EBS shape function to the simulated yields for thin and thick targets without relying on the R-matrix analysis.