

Analysis of Liquid Waste Using PIXE

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Abstract

Non-radioactive liquid waste generated in the Kaya Memorial Takizawa Laboratory was analyzed using the PIXE system established at the Nishina Memorial Cyclotron Center. Samples of the liquid waste were collected at several stages of the non-radioactive liquid waste purifying process. A simple sample preparation method for liquid sample was adopted. Liquid sample was dropped and dried on the backing film directly for the PIXE after adding the internal standard element. Many elements in the liquid sample were detected. The PIXE used in this study is shown to be a very valuable method for analyzing the liquid sample.