

Abstract Submitted
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The scattering of X-rays and the induction phenomenon RAMA MOHANTY, Southern University Baton Rouge — This paper discusses the well-established Faradays Law of Induction and the associated Lenz law and compares these laws with a similar law which appears to exist in the triplet production process achieved by bombardment of emulsion with 0-9- Mev X-ray. This comparison shows that an induction-like process occurs during triplet production, leading to the supposition that a force which may be called the “Matteromotive force” exists for triplet production. An associated Lenzs-law-like law also appears to exist in this process. For this study, 1935 triplets were observed in 54433 fields of view of the microscopes; out of these, 1872 triplets were measured in the energy interval of 2-90 Mev. In addition, the angular distribution of recoil electrons was observed, and is presented here.

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