

Abstract Submitted
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Modeling and simulation of charged particle beam transport in the UTA 2 meter Time of Flight Positron Annihilation Induced Auger Spectrometer¹ PRASAD JOGLEKAR, LAWRENCE LIM, SUSHANT KALASKAR, KARTHIK SHASTRY, SUMAN SATYAL, ALEXANDER WEISS², U T Arlington — Time of Flight Positron Annihilation Induced Auger Electron Spectroscopy (TOF PAES) is a surface analytical technique with high surface selectivity. Almost 95% of the PAES signal originates from the sample's topmost layer due to the trapping of positrons just above the surface in an image-potential well before annihilation. This talk presents a description of the TOF technique as the results of modeling of the charged particle transport used in the design of the 2 meter TOF-PAES system currently under construction at UTA.

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