

Title of Article: Application of Magnetic Method and Electrical Resistivity Tomography for Imaging Archaeological Structures at Iyekere, Ile-Ife Southwestern Nigeria

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Abstract: Magnetic and electrical resistivity tomography geophysical techniques were integrated to locate subsurface archaeological materials. The magnetic survey comprises seven profiles in N-S and E-W direction with station interval of 0.5 m. Orthogonal set of 2D electrical resistivity tomography data consisting of four parallel and three perpendicular profiles were collected using Wenner array with electrode spacing ranging from 0.5 – 3.0 m. Trial pits carried out at regions of high total magnetic intensity and model resistivity yield burnt pipes “TUYERE”, iron slag, iron smelting, and pottery fragments.