

Abstract Submitted
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Study of Surface Plasmon Polariton propagation in Plasmonic Waveguides WILLIS AGUTU, CHARLES REGAN, AYRTON BERNUSSI, LUIS GRAVE-DE-PERALTA, Texas Tech University, PHYSICS DEPARTMENT, TEXAS TECH UNIVERSITY COLLABORATION, NANO TECH CENTER, TEXAS TECH UNIVERSITY COLLABORATION — Using surface plasmon polariton (SPP) tomography techniques, we study the propagation of SPPs in dielectric-loaded plasmonic waveguides. Surface emission and Fourier plane tomography images were used to characterize SPP propagation and losses in straight and curved, single and multimode waveguides. This study shows the imaging and characterization capabilities of SPP tomography.

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