

227. Title: Spectroscopy and terahertz imaging for sigillography applications

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Abstract: Sigillography is the science that studies the manifold aspects of the seals. A seal can be defined as an imprint obtained on a malleable medium by imprinting an incised matrix, which transfers on it the characteristic signs of a person or an institution. We use THz spectroscopy and imaging for non-destructive evaluation of natural materials within old seals. Using a time domain THz spectroscopy and imaging system, THz transmission images are generated in the 0.1-3 THz range and demonstrate that the spectral properties of these materials allow to see across and under a thick layer of old materials.