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NMR MAGNETIC FIELD MEASUREMENT FOR EIT

ABSTRACT *The possibility of magnetic flux density measurement by nuclear magnetic resonance is presented in the paper. The current source is connected to a specimen. This direct current creates magnetic field around the specimen. All three components of magnetic flux density have been measured. The processing and evaluation of data measured are described. Measured values of magnetic flux density were compared to theoretical values calculated according to the Biot-Savart's law. These data will be used as input data for conductivity reconstruction based on electrical impedance tomography.*

Keywords: *measurement, magnetic flux density, nuclear magnetic resonance, conductivity reconstruction, electrical impedance tomography*