## **3D SUPER-RESOLUTION IMAGING**

A. Nolvi<sup>1</sup>, <u>P. Helander<sup>1</sup></u>, I. Kassamakov<sup>1</sup>, and E. Hæggström<sup>1</sup>

<sup>1</sup> Electronics Research Lab., Dept. of Physics, University of Helsinki, Helsinki, Finland

email: <u>ivan.kassamakov@helsinki.fi</u>

An increasing global focus on nanotechnology drives a demand for better imaging methods capable of seeing at the nanometer scale [1]. The need to see without touching the sample reaches from bio-tech to the manufacturing industry. We present an optical 3D super-resolution imaging method. As a proof of principle we demonstrate a measurement of a BD-R disc featuring a grooved pattern with nanometer dimensions.

[1] "Microscopy Devices Market – Global Industry Analysis, size, share, growth, trends and forecast, 2014-2020", Transparency Market Research, July 2014.