



Standard bright field microscope image of red blood cells (left). The refractive index of the specimen is reconstructed as a color map (right) from intensity disturbances recorded with a digital camera along the optical axis. The map shows regions of both high (red) and low (blue) refractive index. Selected for a Synopsis in *Physics*. [Kevin G. Phillips, Steven L. Jacques, and Owen J.T. McCarty, *Phys. Rev. Lett.* **118**, 118105 (2012)]

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