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and electron optics in vacuum, to prepare the ground for a discussion of the principles of solid state electron optics in section 3. Examples are discussed in section 4 and 5, which deal with ballistic transport through a quantum point contact, and with 2D refraction

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optics of visible light for image formation, and was much easier and more developed compared to electron optics. He named the new imaging principle holography, for its ability to record the whole optical field [1]. The holography principle was immediately applied to recording and imaging by visible light [4].

Principles and techniques of digital holographic microscopy

prototype electron microscope in 1931, capable of four-hundred-power magnification; the apparatus was the

first demonstration of the principles of electron microscopy. Two years later, in 1933, Ruska built an electron microscope that exceeded the resolution attainable with an optical (light) microscope.

Optical Microscope; Scanning Electron Microscope (SEM)

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Physical Principles of Electron Microscopy: An

Introduction: Basics of Transmission Electron Microscopy (TEM) TEM Doctoral Course MS-637 April 25-27th, 2016 ... I will discuss more in the next lecture about electron guns, optics and detectors. 4/20/2016 6 thomas.lagrange@epfl.ch www.epfl.ch cime.epfl.ch +41 (0)21 6934430

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The electron optical relations summarized in this chapter are essentially oriented toward electron microscopy. The course of the beam in a conventional transmission electron microscope is sketched in Figure 2.1. The electrons emitted from the cathode are first accelerated in a system of electrostatic lenses.

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the SEM electron optics, the gun source size, the electron optical brightness and the accelerating voltage. The probe size, which directly effects resolution can be decreased by increasing the brightness. The electron optical brightness \tilde{Y} is a parameter that is function of the electron gun performance and design.

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Principles Of Electron Optics Wave Optics

Electron optics is a mathematical framework for the calculation of electron trajectories along electromagnetic fields. The term optics is used because magnetic and electrostatic lenses act upon a charged particle beam similarly to optical lenses upon a light beam.

Electron optics - Wikipedia

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Topic 3a Light microscopy - University of Tennessee

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