



Gravitational Lensing: Strong, Weak and Micro: Saas-Fee Advanced Course 33

Peter Schneider, Christopher Kochanek, Joachim Wambsganss

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The observation, in 1919 by A.S. Eddington and collaborators, of the gravitational deflection of light by the Sun proved one of the many predictions of Einstein's Theory of General Relativity: The Sun was the first example of a gravitational lens. In 1936, Albert Einstein published an article in which he suggested using stars as gravitational lenses. A year later, Fritz Zwicky pointed out that galaxies would act as lenses much more likely than stars, and also gave a list of possible applications, as a means to determine the dark matter content of galaxies and clusters of galaxies. It was only in 1979 that the first example of an extragalactic gravitational lens was provided by the observation of the distant quasar QSO 0957+0561, by D. Walsh, R.F. Carswell, and R.J. Weymann. A few years later, the first lens showing images in the form of arcs was detected. The theory, observations, and applications of gravitational lensing constitute one of the most rapidly growing branches of astrophysics. The gravitational deflection of light generated by mass concentrations along a light path produces magnification, multiplicity, and distortion of images, and delays propagation from one line of sight relative to another. The huge amount of scientific work produced over the last decade on gravitational lensing has clearly revealed its already substantial and wide impact, and its potential for future astrophysical applications.

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