

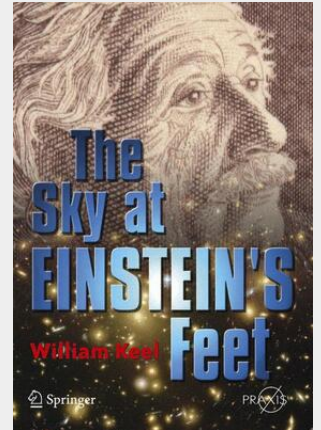
Keel

## The Sky at Einstein's Feet

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Specifically traces the impact of Einstein's ideas on astronomy, including the way we interpret observations of stars and galaxies. Includes comments from principals in important discoveries, illuminating the processes behind these results. Presents many applications of relativity that have not been shown in earlier popular-level books and illustrates how deeply physics permeates the way we interpret many astronomical phenomena. Highlights light-travel delays in cosmic jets, using gravitational lensing to trace cosmic mass distribution. Illustrations employ new and archival data from ground- and space-based observatories.

The year 2005 will see many appreciations of Einstein's legacy, but it is sheer happenstance that this book came along now. It was inspired by the Washington status of Einstein, which stresses his connections to the cosmos. That line of thought led to this volume of explanation, which I hope will share with a wider audience the deep impact of relativity on astronomy. Over and over, we have found things happening in the Universe which required the insights of relativity to explain. Many of these deserve to be lifted from the research literature and graduate lectures to a wider public. Many people have generously helped me with images, data, and personal collections. I would like to acknowledge with thanks the narratives provided by Ray Weymann, Bob Carswell, Pamela Walsh, Barbara Schaefer, Jackie Hewett, Alan Stockton, Bob Goodrich, Derek Wills, and Roger Lynds on gravitational lensing, and Don Schneider, Myron Smith, Jack Sulentic for recollections of Peter Young and Richard Wilcox. Jay Holberg allowed me to see his unpublished manuscript on white dwarfs, and his detective work on how Adams got the wrong answer by doing all the right things. Don Osterbrock, Richard Dreiser, and Kyle Cudworth helped me try to straighten out early responses to Einstein's prediction of gravitational lensing. Jerry Fishman, Bruce Margon, Phil Hardee, and Felix Mirabel provided useful (and sometimes quotable) comments.



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