gets to fall down the black hole — about one percent.

Over about the same few years Miller and Antonucci, who started out as a graduate student at the University of California at Santa Cruz campus, where the Lick Observatory is headquartered, have been measuring the polarization in the light from quasars. Quasars appear in the telescope as points of light. Detail cannot be distinguished, so evidence of structure must be indirect.

Light from the centers of quasars ought to be generated unpolarized, that is, vibrating in random directions. Yet Miller and Antonucci found some quasars with significant polarization parallel to and some with polarization perpendicular to the direction of the axis of the radio-emitting lobes.

Light that is unpolarized can be polarized by being reflected. Where the polarization is parallel to the axis, the amount of polarization is fairly small. This leads to the conclusion that the polarized light has been reflected off a thin (and probably transient) accretion disk, while at the same time a lot of unpolarized light is coming to us directly. In the case of parallel polarization the proportion of polarized light is quite high. This would indicate that the light had come out past a fat and relatively darker accretion disk and been reflected toward us by matter that happened to be in the neighborhood. Miller and Antonucci conclude: "Our findings give new support for the accretion disk picture.'

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Horace's Compromise: The Dilemma of the American High School — Theodore R. Sizer. Horace Smith knows how to teach well but he has to compromise what he knows will work well in teaching in order to meet the demands of the system in the typical suburban high school. This book is the culmination of a two-year journey by one of America's leading educators to high schools throughout the United States. Urges renewed public attention to the importance of teaching in high schools and to the complexity and subtlety of that craft. This is the first report from a study of high schools co-sponsored by the National Association of Secondary School Principals and the Commission on Educational Issues of the National Association of Independent Schools. HM, 1984, 241 p., \$16.95

The Intelligent Universe—Fred Hoyle. One of England's most eminent and controversial scientists challenges traditional beliefs about the origins and nature of the universe and the evolution of life on Earth. Well illustrated and written for the general reader. Originally published in Great Britain. HR&W, 1984, 256 p., color/b&w illus., \$18.95.

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Math and Logic Games — Franco Agostini, translated from Italian by Paul Foulkes. A collection of logical and mathematical games both ancient and modern. Criteria, sometimes historical at other times conceptual, have been used to link the games. According to the introduction, those mathematical concepts that may be beyond the average reader are explained. Facts on File, 1983, 181 p., color/b&w illus., \$18.95.

New Hope for Binge Eaters: Advances in the Understanding and Treatment of Bulimia—Harrison G. Pope Jr. and James I. Hudson. Explains bulimia, the syndrome of compulsive binge eating followed by purging, and answers the questions of those who suffer from the disorder. Offers a detailed description of new studies in which bulimia has been linked to depression and bulimia sufferers have been treated successfully with anti-depressant drugs. Har-Row, 1984, 239 p., \$14.95.



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