

1. Record Nr.	UNINA9910965346903321
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Titolo	Active galactic nuclei / / Volker Beckmann and Chris Shrader
Pubbl/distr/stampa	Weinheim, : Wiley-VCH Chichester, : John Wiley [distributor], 2012
ISBN	9783527666805 352766680X 9783527666829 3527666826 9783527666812 3527666818
Descrizione fisica	xxx, 351 p. : ill
Altri autori (Persone)	ShraderChris R. <1955->
Disciplina	523.112
Soggetti	Active galactic nuclei Galaxies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	Active Galactic Nuclei This AGN textbook gives an overview on the current knowledge of the Active Galactic Nuclei phenomenon. The spectral energy distribution will be discussed, pointing out what can be observed in different wavebands. The different physical models are presented together with formula important for the understanding of AGN physics. Furthermore, the authors discuss the AGN with respect to its environment, host galaxy, feedback in galaxies and in clusters of galaxies, variability, etc. and finally the cosmological evolution of the AGN phenomenon. This book includes phenomena based on new results in the X-Ray and gamma-ray domain from new telescopes such as Chandra, XMM-Newton, the Fermi Gamma-Ray Space Telescope, and the VHE regime not mentioned so far in AGN books. Those and other new developments as well as simulations of AGN merging events and formations, enabled through latest super-computing capabilities. From the contents: * The observational picture of AGN * Radiative

processes * The central engine * AGN types and unification * AGN
through the electromagnetic spectrum * AGN variability * Environment
* Quasars and cosmology * Formation, evolution and the ultimate fate
of AGN * What we do not know (yet)
