1. Record Nr. UNINA9910809450503321

Titolo	The emission-line universe : XVIII Canary Islands Winter School of Astrophysics / / edited by Jordi Cepa
Pubbl/distr/stampa	Cambridge, UK ; ; New York, : Cambridge University Press, 2009
ISBN	1-107-20222-1 1-281-98251-2 9786611982515 0-511-46435-5 0-511-46277-8 0-511-46509-2 0-511-46202-6 0-511-55203-3 0-511-46356-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (xii, 296 pages) : digital, PDF file(s)
Collana	Canary Islands Winter School of Astrophysics
Altri autori (Persone)	CepaJordi
Disciplina	523.1/12
Soggetti	Emission-line galaxies Active galactic nuclei
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover; Half-title; Title; Copyright; Contents; Contributors; Participants; Preface; Acknowledgements; 1. What can emission lines tell us?; 2. The observer's perspective: Emission-line surveys; 3. The astrophysics of early galaxy formation; 4. Primeval galaxies; 5. Active galactic nuclei; 6. Chemical evolution; 7. Galactic sources of emission lines; 8. Narrow-band imaging; 9. Long-slit spectroscopy; 10. Basic principles of tunable filters
Sommario/riassunto	Emission lines provide a powerful tool to study the physical properties and chemical compositions of astrophysical objects in the Universe, from the first stars to objects in our galaxy. The analysis of emission lines allows us to estimate the star formation rate and initial mass function of ionizing stellar populations, and the properties of active galactic nuclei. This book presents lectures from the eighteenth Winter

School of the Canary Islands Astrophysics Institute (IAC), devoted to emission lines and the astrophysical objects that produce them. Written by prestigious researchers and experienced observers, it covers the formation of emission lines and the different sources that produce them. It shows how emission lines in different wavelengths, from ultraviolet to near infrared, can provide essential information on understanding the formation and evolution of astrophysical objects. It also includes practical tutorials for data reduction, making this a valuable reference for researchers and graduate students.