Chemically Consistent Evolutionary Synthesis

Uta Fritze–v. Alvensleben, Peter Weilbacher, Jens Bicker

Universitäts-Sternwarte Göttingen, Geismarlandstr. 11, 37083 Göttingen, Germany

abstract

To account for the range of stellar metallicities in local galaxies and for the increasing importance of low metallicities at higher redshift we present chemically consistent models for the spectral and chemical evolution of galaxies over cosmological timescales. We discuss advantages, limitations and future prospects of our approach.