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Title: Determining element abundances in old and young integrated stellar populations from full spectral fitting

Abstract: Recent advances in stellar population modeling make it possible to determine physical properties such as mean age, iron and alpha-element abundances from integrated spectra using not only specific wavelength ranges as in traditional Lick-index-type methods, but from the full available spectrum. I will present applications of this principle to early-type galaxies from the CALIFA survey and to exceptionally high S/N data of the disk of NGC300 obtained with FORS2@VLT. I will highlight commonalities and differences with literature studies in the results.