



# ***S-PLUS: An atlas of integrated H $\alpha$ fluxes for planetary nebulae in the Magellanic Clouds***

***L. A. Gutiérrez-Soto, A. Lopes, A. V. Smith Castelli & F. R. Faifer***  
Instituto de Astrofísica de La Plata, CONICET-UNLP, Argentina

## **ABSTRACT**

We present an atlas of H $\alpha$  fluxes for planetary nebulae of the Magellanic Clouds (MC PNe) with measurements from the Southern Photometric Local Universe Survey (S-PLUS), a 12 band (7 narrow and 5 broad) imaging survey that allows us to perform an spatial analysis of the H $\alpha$  emission. Aperture photometry on the continuum-subtracted images was performed to extract H $\alpha$  + [N II] fluxes of the MC PNe observed by S-PLUS. The dust attenuation and [N II] contribution was corrected with empirical relations. Amongst its many applications, it can provide baseline data for photoionization and hydrodynamical modelling, and allow better estimates of Zanstra temperatures for PN central stars with accurate optical photometry.