

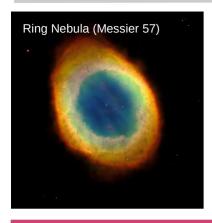




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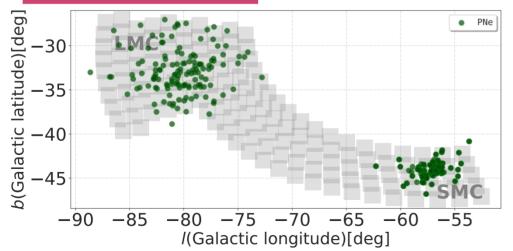
## **Context**



#### What are planetary nebulae?

Planetary nebulae (PNe) are emission line nebulae that represent a short phase in the late evolution of low- and intermediatemass stars.

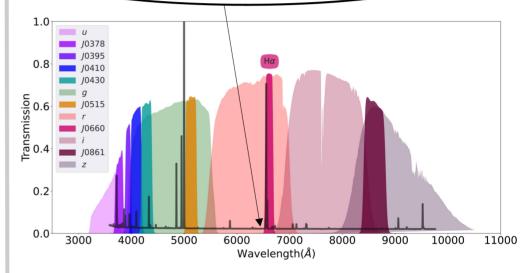
### PNe in the Magellanic Clouds



The distribution of the planetary nebulae from the literature (green circles) in the Magellanic Clouds.

#### About S-PLUS:

Typical spectrum of a PN: the Hα and [N II] emission lines are detected by J0660 filter for sources with a redshift up to 0.015



As part of its effort to map 9,000 square degrees of the Southern Hemisphere, the S-PLUS project (Mendes de Oliveira et al. 2019) has a crucial feature: images of the entire field captured using the  $H\alpha$  narrow-band **J0660** filter.

# Hα flux PNe with S-PLUS data



