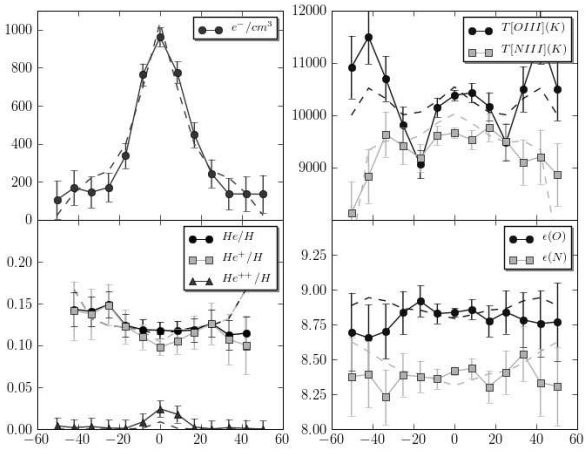

Fig. 1. Observational results (filled points) compared with model predictions (dashed lines). The error bars indicate the standard deviation of the local measurements.

with volume emission by mirroring the results according to the symmetry.

4. RESULTS

4.1. *IC4406*

This object is an example of the results derived using long slit (Figure 1). A previous angular study of this object was made by Corradi et al. (1997). Our results are in agreement with this work, though with a higher angular resolution. The object belongs to the butterfly class, and manly due to its high axes ratio, its main axis is assumed to be almost perpendicular to the line of sight. The adopted geometry is that of a tube, but with the distance-centered density function based on Dayal et al. (2000). The main properties of the final model are at Table 1.

4.2. *NGC 6572*

A comprehensive study of the NGC 6572 spectrum was made by Hyung et al. (1994), where a bipolar model was proposed. With this geometry, we were not able reproduce the angular properties saw in the IFU maps built for the object, mainly due the high and wide [SII] density distribution (Figure 2), however we propose a simple elliptical model that is in good agreement with the angular distribution of [SII] density and the [NII]/Hα flux ratio.

5. CONCLUSIONS

Both observational techniques used have shown to be suitable for the characterization of spatially resolved PNe, providing observational constraints appropriate to be used in the construction of models for these objects, and therefore allowing the self-consistent determination of the physical properties for them.

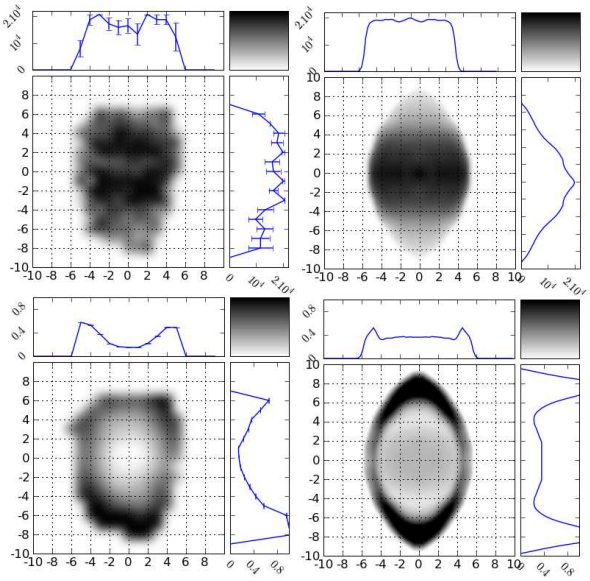

Fig. 2. Observational results (left) compared with model predictions (right). The error bars indicate the standard deviation of the local measurements. At top, the [SII]671.6/673.1nm density map (units of e^{-1} cm^{-3}). At bottom, the fluxes ratio of [NII]658.4nm/Hα lines.

TABLE 1

MODELS VALUES

PN	$\log T_*$	$\log L_*$	Hβ[a]	Dist.
IC4406	5.02 K	2.2 $L_\odot$	1.05	1.14 kpc
NGC 6572	4.73 K	3.4 $L_\odot$	1.03	1.27 kpc

[a]Ratio of predicted flux with those observed by Acker et al. (1992).

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