

## ABSTRACT ONLY

### INFLUENCE OF GALAXY ROTATION AND OUTFLOWS ON THE LYMAN ALPHA SPECTRAL LINE

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Galaxies detected through its  $\text{Ly}\alpha$  emission are known as Lyman Alpha Emitters (LAEs). Typical LAEs are star-forming and have a low dust content. Additional dynamical characteristics of a LAEs' interstellar medium can be derived by studying its  $\text{Ly}\alpha$  line morphology and comparing it against theoretical models. In this work we model the joint effect of bulk rotation and outflows. We include these two effects into a Monte Carlo radiative transfer code to study their impact into the the  $\text{Ly}\alpha$  line morphology. We find that rotation alone does have an impact on the  $\text{Ly}\alpha$  morphology. Together with the outflows, the new model can reproduce LAEs' main observed features with physically motivated parameters for the rotational and outflow velocities. We present fits of this model to some observationa spectra to argue that both rotation and outflows have to be taken into account for a proper estimation of a LAE physical parameters.

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