

# New methods of extracting resolved galaxy properties from HI spectra

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## Method to create models



## Testing with THINGS galaxy NGC 3198

Developed a method to constrain  $M_{HI}(R)$  and  $V_{rot}(R)$  using only **HI Spectrum**.

Aiming to study **kinematics** of galaxies beyond Local Universe.

Testing our method on nearby galaxies with **spatially-resolved HI Imaging** and then applying the method to **ALFALFA spectra**

