Poster

OBSERVATIONS OF SUB-MILLIMETRE OF HYDROGEN RECOMBINATIONS LINES TOWARDS η CARINA AND NGC253

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I summarize the observational results of the recent APEX observations of submillimetre hydrogen recombination lines towards the southern evolved star η Carina and starburst galaxy NGC253.

In η Carina, evidence of strong variation has been found in the H29 α and H27 α (maser) lines. This variation is probably associated to 5.5 yr period periastron passage predicted for last January. In addition, the line profiles of the new higher frequency H26 and H27 α detections support previously found evidence η Carina contains a recombination line maser.

In NGC253, the H29, H27 and H26 α lines have been detected towards the active nucleus of this galaxy. These detections are consistent with previous multi-component starburst models previously derived from centimeter lines.