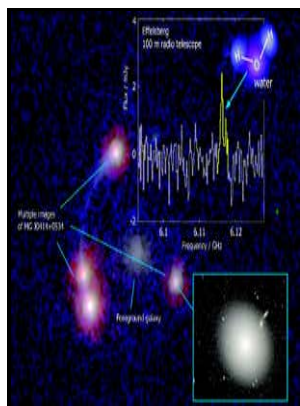


# Astronomical masers

Kluwer Academic Publishers - Seven New Cosmic Masers Discovered



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Taylor, Zachary, 1784-1850.

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## A heatwave of accretion energy traced by masers in the G358

The LBA is part of the Australia Telescope National Facility, which is funded by the Australian Government for operation as a National Facility managed by CSIRO.

## Seven New Cosmic Masers Discovered

The strong 1612-MHz emission at this site was positioned by , with independent confirmation in the present observations.

## Maser

In general, both types of pumping can produce inversion under the right conditions although in certain, specific circumstances only one may be capable of inversion and the nature of the pump in any particular source is determined by the relative strengths of both processes. MASERS and their shorter-wavelength counterparts LASERS , have many practical applications, especially in science and medicine.

## Astrophysical maser

**Abstract** A brief introduction to the concept of a natural maser is followed by a history of the discovery of masers in space and a discussion of their basic properties. In the standard model, the cosmic expansion is an inherent property of space and time, and the value of the Hubble constant gives us its cosmic rate. If the methanol masing requirements are similar to those of 1720-MHz OH, then the demise of the methanol and 1720-MHz OH may result from the same changes that favour the onset of 1612-MHz emission.

## A heatwave of accretion energy traced by masers in the G358

The latter correlation can now be further explored for sources with improved positions, albeit for a smaller sample: of the 12 1720-MHz masers that we list in , all except 10.

A light-year is the distance light travels in one year, which is about 5.

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