

## 6.7 GHz Methanol masers in the IRAS 20126+4104 during minimum and maximum activity

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### Content

IRAS 20126+4104 (G78.122+3.633) is a well-studied high-mass protostar that still presents unanswered questions, such as the cause of 6.7 GHz methanol maser short-term fluctuations (ranging from 5 to 60 days) and how individual maser cloudlets respond to transitions from long low-activity periods to long high-intensity periods. To address these questions, we are utilizing combined 6.7 GHz methanol maser monitoring efforts from the Irbene and Torun radio telescopes, along with milliarcsecond (mas) imaging capabilities of the European VLBI Network (EVN).

In this research project, we have obtained a second epoch of observations of this source, timed close to its activity maximum, in contrast to all other observations that were taken near its minima. Preliminary results suggest an increase in the projected linear size of maser cloudlets as their flux increases, as well as the appearance of new intense maser cloudlets near existing ones. Additionally few of most variable cloudlets (2; 3 and 7) seems to be in a bit different position - their peak is a bit closer to a jet.

Additionally, in this observation project (EA067), we obtained the second-ever milliarcsecond images of G90.92+1.49 and G94.602-1.796.

**Primary author(s) :** ABERFELDS, Artis (Latvia Republic)

**Co-author(s) :** Prof. BARTKIEWICZ, Anna (Torun Institute of Astronomy, NCU); Dr. BURNS, Ross (RINKEN)

**Presenter(s) :** ABERFELDS, Artis (Latvia Republic)

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