

Brief summary of KaVA data

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- Observation was done on October 11 with KaVA 6 stations: IRIKI was missing due to a system problem.
- Data analysis was done by using AIPS in a standard manner.
- Data was quickly analyzed to check quality, but not carefully inspected (e.g. not checked by SNPLT, POSSM, VPLOT, UVPLT, KNTR, etc.). No flagging, no self-calibration is applied.
- The 22 GHz H₂O masers are detected toward both G25.65+1.05 and W49N with 6 KaVA stations.
- The 44 GHz CH₃OH masers are detected only in AC spectra toward both G25.65+1.05 and W49N with 3 KVN stations. XC spectra are marginally detected in scalar-averaged XC but not in the task FRING.
- Fringe finders, 3C279, J1751+0939, J2202+4216, and NRAO150, are detected at both 22 GHz and 44 GHz.
- Reference source, J1905+0952, are detected in most of the scans at both 22 GHz and 44 GHz, but J1828-0530 are not detected in FRING.
- Phase-referencing analysis for G25.65+1.05 was failed (but need more careful analysis). Absolute position of G25.65+1.05 has not been determined yet. FRMAP was not converged at sufficiently high accuracy.
- Full synthesis imaging of W49N has not been done due to very large field of view and large number of channels (e.g. Kramer et al. in prep, Asanok et al. in prep, for KaVA data).

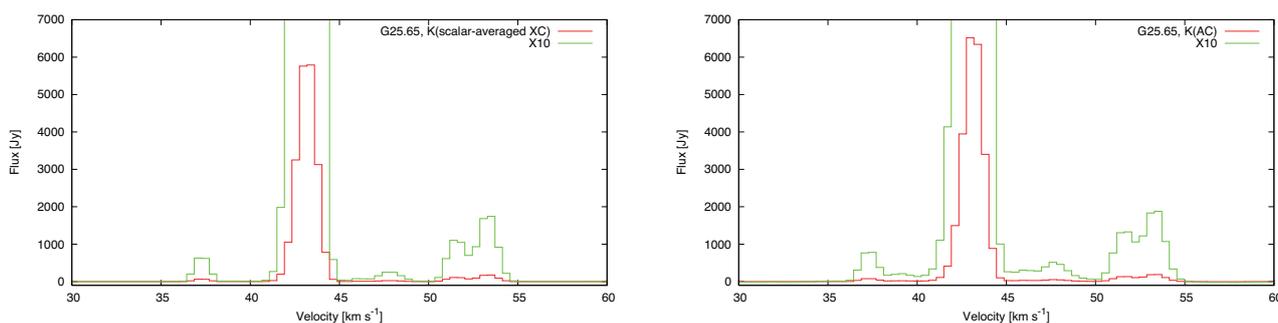


Figure 1: Scalar-averaged XC (integrated over all baselines and all time range) and AC (only Ulsan antenna, integrated over all time range) spectra of the 22 GHz H₂O maser in G25.65+1.05.

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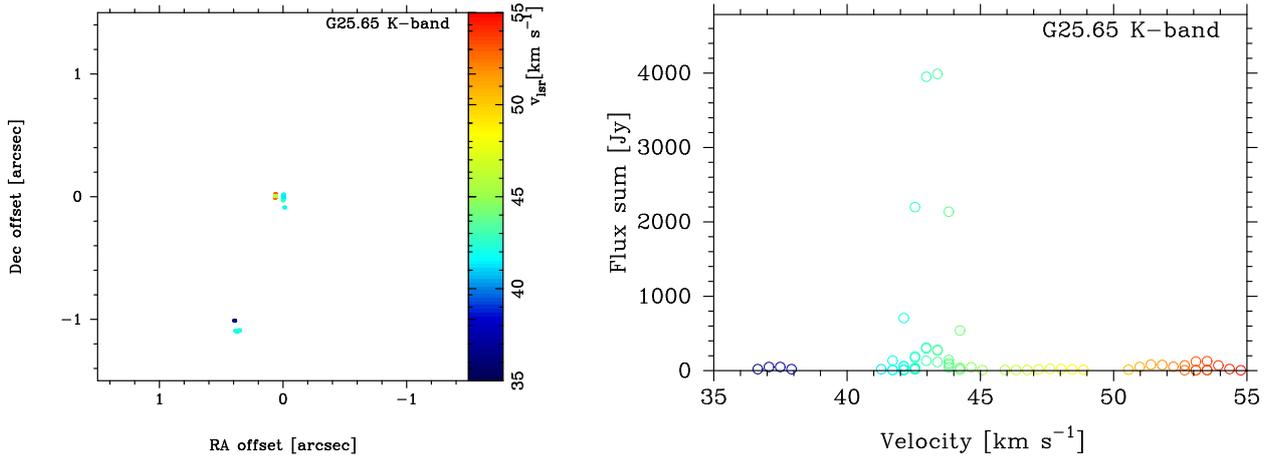


Figure 2: Distribution of the 22 GHz H_2O maser spot and flux density (from ISPEC) in G25.65+1.05. The brightest feature is located at the (0,0) position.

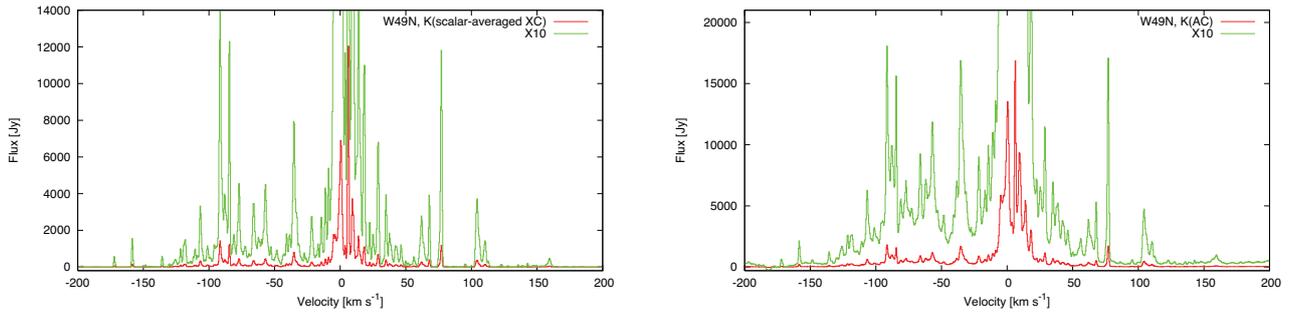


Figure 3: Scalar-averaged XC (integrated over all baselines and all time range) and AC (only Ulsan antenna, integrated over all time range) spectra of the 22 GHz H_2O maser in W49N.

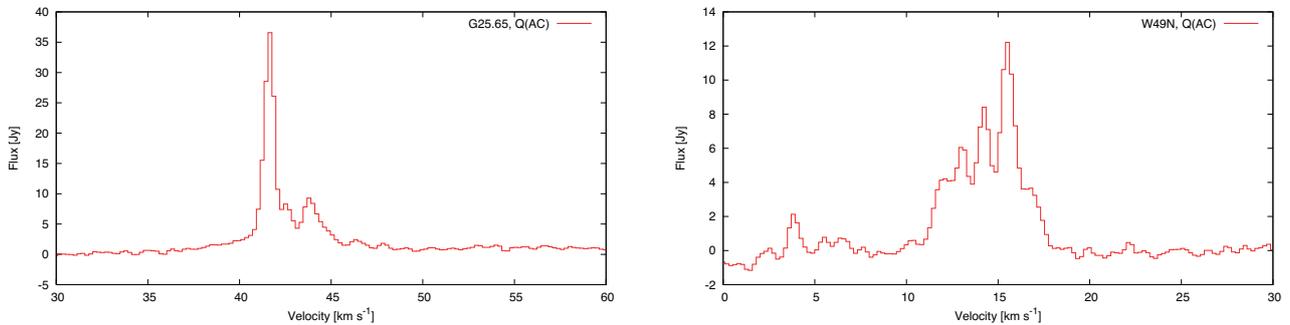


Figure 4: AC (only Ulsan antenna, integrated over all time range) spectra of the 44 GHz CH_3OH maser in G25.65+1.05 and W49N.