



Astrophysics > Galaxy Astrophysics

# The Masers Towards IRAS 20126+4104

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(Submitted on 3 Jul 2011)

We present MERLIN observations of OH, water and methanol masers towards the young high mass stellar object IRAS 20126+4104. Emission from the 1665-MHz OH, 22-GHz H<sub>2</sub>O and 6.7-GHz CH<sub>3</sub>OH masers is detected and all originates very close to the central source. The OH and methanol masers appear to trace part of the circumstellar disk around the central source. The positions and velocities of the OH and methanol masers are consistent with Keplerian rotation around a central mass of ~ 5 Msun. The water masers are offset from the OH and methanol masers and have significantly changed since they were last observed, but still appear to be associated to the outflow from the source. All the OH masers components are circularly polarised, in some cases reaching 100 percent while some OH components also have linear polarisation. We identify one Zeeman pair of OH masers and the splitting of this pair indicates a magnetic field of strength ~ 11 mG within ~ 0.5" (850 AU) of the central source. The OH and methanol maser emission suggest that the disk material is dense,  $n > 10^6 \text{ cm}^{-3}$ , and warm,  $T > 125 \text{ K}$  and the high abundance of methanol required by the maser emission is consistent with the evaporation of the mantles on dust grains in the disk as a result of heating or shocking of the disk material

Comments: 9 pages, 7 figures and 6 tables  
Subjects: **Galaxy Astrophysics (astro-ph.GA)**  
Journal reference: 2005 A&A, 343, 213  
DOI: [10.1051/0004-6361:20041872](https://doi.org/10.1051/0004-6361:20041872)  
Cite as: [arXiv:1107.0448](https://arxiv.org/abs/1107.0448) [astro-ph.GA]  
(or [arXiv:1107.0448v1](https://arxiv.org/abs/1107.0448v1) [astro-ph.GA] for this version)

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[v1] Sun, 3 Jul 2011 11:46:04 GMT (126kb)

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