

HIGH VELOCITY OH NEAR YOUNG STELLAR OBJECTS:
L1551

I.F. Mirabel
University of Puerto Rico, USA

L.F. Rodríguez and J. Cantó
Instituto de Astronomía
Universidad Nacional Autónoma de México

and

E.M. Arnal
Instituto Argentino de Radioastronomía y
Observatorio Astronómico de La Plata
Argentina

ABSTRACT. We report the detection of OH absorption at high velocities in the bipolar outflow associated with the star formation region L1551. The OH absorption shows the same anisotropic angular distribution as the red shifted and blueshifted CO emission. The OH transitions are markedly subthermal ($T_{\text{ex}} \leq 3.8$ K), since the radiation that is being absorbed is a background continuum constituted by the cosmic component plus a small galactic contribution. The absorbing OH appears to trace the part of the bipolar outflow with the highest velocity and lowest density.

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E.M. Arnal: Instituto Argentino de Radioastronomía y Observatorio Astronómico de La Plata, Casilla de Correos 5, Villa Elisa, Pcia. Bs.As. Argentina.

J. Cantó and L.F. Rodríguez: Instituto de Astronomía, UNAM, Apartado Postal 70-264, 04510 México, D.F., México.

I.F. Mirabel: Department of Physics, University of Puerto Rico, Box AT, PR 00931, USA.