

ISOLATED POST-T TAURI STARS

Germano R. Quast
 Carlos Alberto P.C.O. Torres
 Laboratório Nacional de Astrofísica/ON/CNPq¹

Ramiro de La Reza
 Gustavo F.P. Mello
 Observatório Nacional/CNPq²

ABSTRACT. T-Tauri stars are normally found in associations and/or in gas and dust clouds. Recently, however, a few objects have been found in the southern hemisphere showing characteristics of post-T Tauri stars, but that are far from any cloud or association. Typical objects of this kind are V4046 Sgr, CoD-2711363, AS 218, FK Ser, AB Dor, TW Hya. Spectra around H α were obtained for these objects and some of them were also observed photometrically. They show periodic or quasi-periodic light variations, indicative of rotational modulation, superposed on an erratic variation due probably to intense chromospheric activity. The amplitudes of the variation in different colors, if interpreted as rotational modulation, may be incompatible with a cold spot model. Ultraviolet and infrared excesses are observed in most of these objects.

Key words: STARS-PRE-MAIN SEQUENCE -- STARS-T TAURI

Germano R. Quast and Carlos A. P.C.O. Torres: Laboratório Nacional de Astrofísica/ON/CNPq, Caixa Postal 21, Itajubá-MG. 37.500, Brasil.

Ramiro de La Reza and Gustavo F.P. Mello: Observatório Nacional/CNPq, Rua Gal. José Cristino, 77 Rio de Janeiro-RJ, 20921, Brasil.