

The spottedness of red dwarf stars

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Abstract.

On the basis of a uniform analysis of spottedness of 17 red dwarfs the values of star spot areas, temperatures and also their dependence on the parameters of stars are obtained. Spotted regions are colder than the surrounding photosphere by 250-1500 K, and their temperatures are determined by spectral classes of stars. Spots occupy about tens of per cent of total stellar surfaces, depending on star rotation velocities. For the flare star EV Lac the relation between the spottedness and flare activity is considered.