F P21 Testing the presence of lithium on the surface of cool Ap stars

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The possibility of a large Li overabundance in Ap stars was raised many years ago and since then many studies paying attention to the problem of Li have appeared in the literature. The more recent observations in the lithium region indicated that in some Ap stars the feature at λ6708 is variable and this variability could be explained by the existence of Li rich spots on the stellar surface. A newly released line list of lanthanides in the D.R.E.A.M. database contains a Ce II line at 6708.099 Å, which seems to be a good candidate to identify the feature at λ6708. We will discuss the possible correlation of the feature with Ce abundances in some cool Ap stars, based on highest resolution UVES spectra obtained at the European Southern Observatory.