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High S/N, high resolution CCD spectra of 10 Am binaries with different orbital elements, rotation and atmospheric parameters obtained at 2m telescope of NAO Rozhen (Bulgaria) were analyzed. We carried out preliminary abundance analysis and study possible dependence of abundance anomalies and [Ca/Fe], in these stars on their effective temperature,  $v \sin i$ , orbital period and eccentricity. There are weak trends of [Ca/Fe] increasing with  $v \sin i$  and  $T_{\text{eff}}$  and decreasing with  $P_{\text{orb}}$  and eccentricity but more sample stars are necessary to confirm and disentangle the possible trends.

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