

ABSTRACT. If  $L \subset M$  is a Legendre submanifold in a Sasaki manifold, then the mean curvature flow does not preserve the Legendre condition. We define a kind of mean curvature flow for Legendre submanifolds which slightly differs from the standard one and then we prove that closed Legendre curves  $L$  in a Sasaki space form  $M$  converge to closed Legendre geodesics, if  $k^2 + \sigma + 3 \leq 0$  and  $\text{rot}(L) = 0$ , where  $\sigma$  denotes the sectional curvature of the contact plane  $\xi$  and  $k$  and  $\text{rot}(L)$  are the curvature respectively the rotation number of  $L$ . If  $\text{rot}(L) \neq 0$ , we obtain convergence of a subsequence to Legendre curves with constant curvature. In case  $\sigma + 3 \leq 0$  and if the Legendre angle  $\alpha$  of the initial curve satisfies  $\text{osc}(\alpha) \leq \pi$ , then we also prove convergence to a closed Legendre geodesic.