DECOMPOSITIONS OF COMPLETE GRAPHS INTO KAYAK PADDLES

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Abstract. A canoe paddle is a cycle attached to an end-vertex of a path. It was shown by Truszczyński that all canoe paddles are graceful and therefore decompose complete graphs. A kayak paddle is a pair of cycles joined by a path. We prove that the complete graph $K_{2n+1}$ is decomposable into kayak paddles with $n$ edges whenever at least one of its cycles is even.

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