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ON SOME CONNECTIONS BETWEEN RANDOM PARTITIONS OF THE UNIT SEGMENT AND THE POISSON PROCESS

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Abstract: Let D_t be the diameter of a partition of the interval $[0, t]$ by renewal moments of a standard Poisson process. Then $D_t/\mathrm{lnt} \to 1$ for $t \to \infty$, in probability. Other theorems on diameters are obtained. Jajte's theorem on random partitions of the unit segment is used.

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