

- MATHIEU RAFFINOT, *Consecutive ones property testing: cut or swap.*  
CNRS, France.

*E-mail:* [raffinot@liafa.jussieu.fr](mailto:raffinot@liafa.jussieu.fr).

Let  $\mathcal{C}$  be a finite set of  $n$  elements and  $\mathcal{R} = \{r_1, r_2, \dots, r_m\}$  a family of  $m$  subsets of  $\mathcal{C}$ . The family  $\mathcal{R}$  verifies the consecutive ones property if there exists a permutation  $P$  of  $\mathcal{C}$  such that each  $r_i$  in  $\mathcal{R}$  is an interval of  $P$ . Several algorithms have been proposed to test this property in  $O(\sum_{i=1}^m |r_i|)$  time, all being involved. We present a simpler algorithm, based on a new partitioning scheme.