

**PARTIALLY EXCHANGEABLE PROCESSES INDEXED  
BY THE VERTICES OF A  $k$ -TREE CONSTRUCTED  
VIA REINFORCEMENT**

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ABSTRACT. We define a reinforced stochastic process of random variables indexed by the vertices of a  $k$ -tree and with values in a Polish space. The work presents a natural extension from an exchangeable to a partially exchangeable setting of previous work done by the authors.

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