

1135-VQ-2411      **Göran Bergqvist\*** ([gober@mai.liu.se](mailto:gober@mai.liu.se)), Department of Mathematics, Linköping University,  
58183 Linköping, Sweden. *On the rank of random tensors.*

Random matrices have full rank with probability 1, but for higher-order real random tensors (multi-arrays) several ranks can occur with positive probability. We show how to calculate the only known exact values of such tensor rank probabilities, which are for  $n \times n \times 2$  Gaussian tensors. (Received September 26, 2017)