

1125-47-1831 **Ian L Charlesworth*** (ilc@math.ucla.edu). *Bi-free probability: a new characterisation and consequences*. Preliminary report.

Bi-free probability was introduced to study simultaneously non-commutative random variables acting from the left and from the right. We demonstrate a new necessary and sufficient condition for bi-free independence, which is an analogue of the “moments of alternating products of centred terms vanish” characterisation of free independence, and present some consequences. (Received September 19, 2016)