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Gerard J Buskes* (mmbuskes@olemiss.edu), Department of Mathematics, University of Mississippi, University, MS 38677. *The de Schipper formula and squares of Banach lattices.*

In this talk we report on joint work with Y. Azzouzi and K. Boulabiar. We compare the square mean and the geometric mean in vector lattices. For certain vector lattices E we define a new addition on the underlying set of the positive cone, which in turn is the positive cone of vector lattices E^\square . We connect E^\square with the square of E as introduced earlier by Buskes and van Rooij. (Received February 16, 2006)