1125-43-1340   **James Rosado*** (`rosado42@rowan.edu`), Department of Mathematics, Rowan University, 201 Mullica Hill Road, Glassboro, NJ 08028, **Hieu Nguyen** (`nguyen@rowan.edu`), Department of Mathematics, Rowan University, 201 Mullica Hill Road, Glassboro, NJ 08028, and **Lei Cao** (`leicaomath@gmail.com`), Department of Mathematics, Georgian Court University, 900 Lakewood Avenue, Lakewood, NJ 08701. *Partitions of Equiangular Tight Frames.*

We prove an algorithm to partition a special class of equiangular tight frames (ETFs) according to a theorem by Marcus, Spielman, and Srivastava (MSS), which as a corollary yields a positive solution to the Kadison-Singer problem. The proof of our algorithm also leads to a refinement of the bound described by the MSS theorem for those ETFs generated by recursive skew-symmetric conference matrices. (Received September 16, 2016)