1172-42-252   **S Petermichl*** (`stefanie.petermichl@gmail.com`). *Good and bad maximal functions.*

In a joint work with Nazarov, Skreb and Treil, we highlight a marked difference in the presence of a matrix weight between the Doob type maximal operator in the dyadic setting and the dyadic Hardy-Littlewood type maximal operator. The former is L^2 bounded while the latter is not. (Received August 30, 2021)