

1176-42-253

**Polona Durcik\*** (durcik@chapman.edu), **Lenka Slavíková** and **Christoph Thiele**. *L<sub>p</sub> bounds for multilinear singular integrals with cubical structure and applications.*

We discuss a recent joint work with L. Slavíková and C. Thiele on  $L_p$  estimates for multilinear singular integral forms with cubical structure. We also give an overview of some questions in ergodic theory and combinatorics to which such estimates can be applied. (Received January 24, 2022)