**CHARLES SAMUELS**, Simon Fraser University and the University of British Columbia *Mahler measures in products of algebraic numbers* 

Let  $M(\alpha)$  denote the Mahler measure of the algebraic number  $\alpha$  and assume  $\alpha_1, \ldots, \alpha_N \in \overline{\mathbb{Q}}$  are such that  $\alpha = \alpha_1 \cdots \alpha_N$ . It seems a generally difficult problem to give non-trivial information about  $M(\alpha_n)$  in terms of  $\alpha$ , although the *t*-metric Mahler measure  $M_t(\alpha)$ , first studied by Dubickas and Smyth in 2000, is a convenient object to consider in this context. In joint work with J. Jankauskas, we resolve an earlier conjecture regarding  $M_t(\alpha)$  in the case where  $\alpha \in \mathbb{Q}$ . This result suggests a generalization to other  $\alpha \in \overline{\mathbb{Q}}$  which turns out, however, to be false. We give an infinitely collection of counterexamples of degree 2 and discuss possible modifications to the conjecture.