Quadratic Forms on Modules over Semirings : New Ways

Manfred Knebusch (Universität Regensburg)
(joint work with Zur Izhakian and Louis Rowen)

I draw on the paper

"Quadratic and symmetric bilinear forms on modules with unique base"

Documenta Math.2016,21:773-808, by Izhakian, Rowen and me, and if time allows, also on a preliminary manuscript of very different nature by Izhakian and me,

"Almost subtractive submonoids of additive monoids,and related quadratic forms".

These papers reveal,that there are directions in the quadratic form theory over semirings different from the now very extended tropical and supertropical theory (our main joint field of interest), which seem to be worth to be pursued in the years to come.