

# EPIC MATH BATTLE OF HISTORY: GROTHENDIECK VS NIKODYM - ROUND 2

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**Abstract.** This is a continuation of the talk by Agnieszka Widz. We will present a sketch of a construction of a Boolean algebra with the Grothendieck property that is balanced (in particular, it does not have the Nikodym property) under the continuum hypothesis (CH). Then we will show a ccc notion of forcing that adds such an algebra (of size  $\omega_1$ ) generically.

## REFERENCES

1. Damian Głodkowski and Agnieszka Widz, *Epic math battle of history: Grothendieck vs Nikodym*, arXiv:2401.13145 (2024).