

# Checking the CB-property and related problems

*Thursday, 10 March 2022 16:30 (30 minutes)*

Given a 0-dimensional projective scheme  $X$  in the projective  $n$ -space over a field  $K$ , we are interested in studying the Cayley-Bacharach property (CB-property) of  $X$ . Classically, a finite set of points  $X$  has the CB-property if every hypersurface of certain degree which contains all points of  $X$  but one automatically contains the last point. In this talk we show how to check the CB-property of a 0-dimensional projective scheme  $X$  and present some related problems.

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**Session Classification:** Vorträge 2