

Title: Equations for point configurations to lie on a rational normal curve

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Abstract: We consider the compactification $V_{d,n} \subseteq (\mathbb{P}^d)^n$ of the space of configurations of n distinct points supported on a rational normal curve of degree d in a projective space \mathbb{P}^d . We discuss the problem of finding equations that define $V_{d,n}$ (set-theoretically and scheme-theoretically), and its applications.

This is a report on an on-going project with Noah Giansiracusa, Han-Bom Moon, and Luca Schaffler.