On tangential weak defectiveness and identifiability of projective varieties

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Abstract. A point $p \in \mathbb{P}^N$ of a projective space is h-identifiable, with respect to a variety $X \subset \mathbb{P}^N$, if it can be written as linear combination of h elements of X in a unique way. Identifiability is implied by conditions on the contact locus in X of general linear spaces called non weak defectiveness and non tangential weak defectiveness. We give conditions ensuring non tangential weak defectiveness of an irreducible and non-degenerated projective variety $X \subset \mathbb{P}^N$, and we apply these results to Segre-Veronese varieties.

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