Mathematics > Algebraic Geometry

Higher secants of spinor varieties

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Let S_h be the even pure spinors variety of a complex vector space V of even dimension 2h endowed with a non degenerate quadratic form Q and let $s_{sigma_k(S_h)}$ be the k-secant variety of S_h . We decribe a probabilistic algorithm which computes the complex dimension of $s_{sigma_k(S_h)}$. Then, by using an inductive argument, we get our main result: $s_{sigma_3(S_h)}$ has the expected dimension except when $h_{1} \{7,8\}$. Also we provide theoretical arguments which prove that S_7 has a defective 3-secant variety and S_8 has defective 3-secant and 4-secant varieties.

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