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10007. *A Brief introduction to Clifford Algebras.*

Those who are contributing papers to the special session on quaternions are familiar with quaternions, and/or the applications of quaternions to their work. A few are also familiar with Clifford Algebra. Last year I did a presentation “The Joining of Quaternions with Grassmann algebras: William Kingdon Clifford”. This year I will give a very basic mathematical introduction to the subject of Clifford Algebra (Geometric Algebra as Clifford called it). It is hoped that this talk will aid in filling in a few gaps for those who are not familiar with the subject and be a bridge between quaternions and Dr. Hestenes work in Geometric Algebra and Calculus. (Received September 09, 2017)