1125-55-37 Mohammad A Obiedat* (mohammad.obiedat@gallaudet.edu), 800 Florida Avenue NE, Washington, DC 20002. A Note on the Construction of Complex and Quaternionic Vector Fields on Spheres.

A relationship between real, complex, and quaternionic vector fields on spheres is given by using a relationship between the corresponding standard inner products. The number of linearly independent complex vector fields on the standard (4n - 1)-sphere is shown to be twice the number of linearly independent quaternionic vector fields plus d, where d =1 or 3. (Received June 13, 2016)